

FIG. 1

10087092.030102

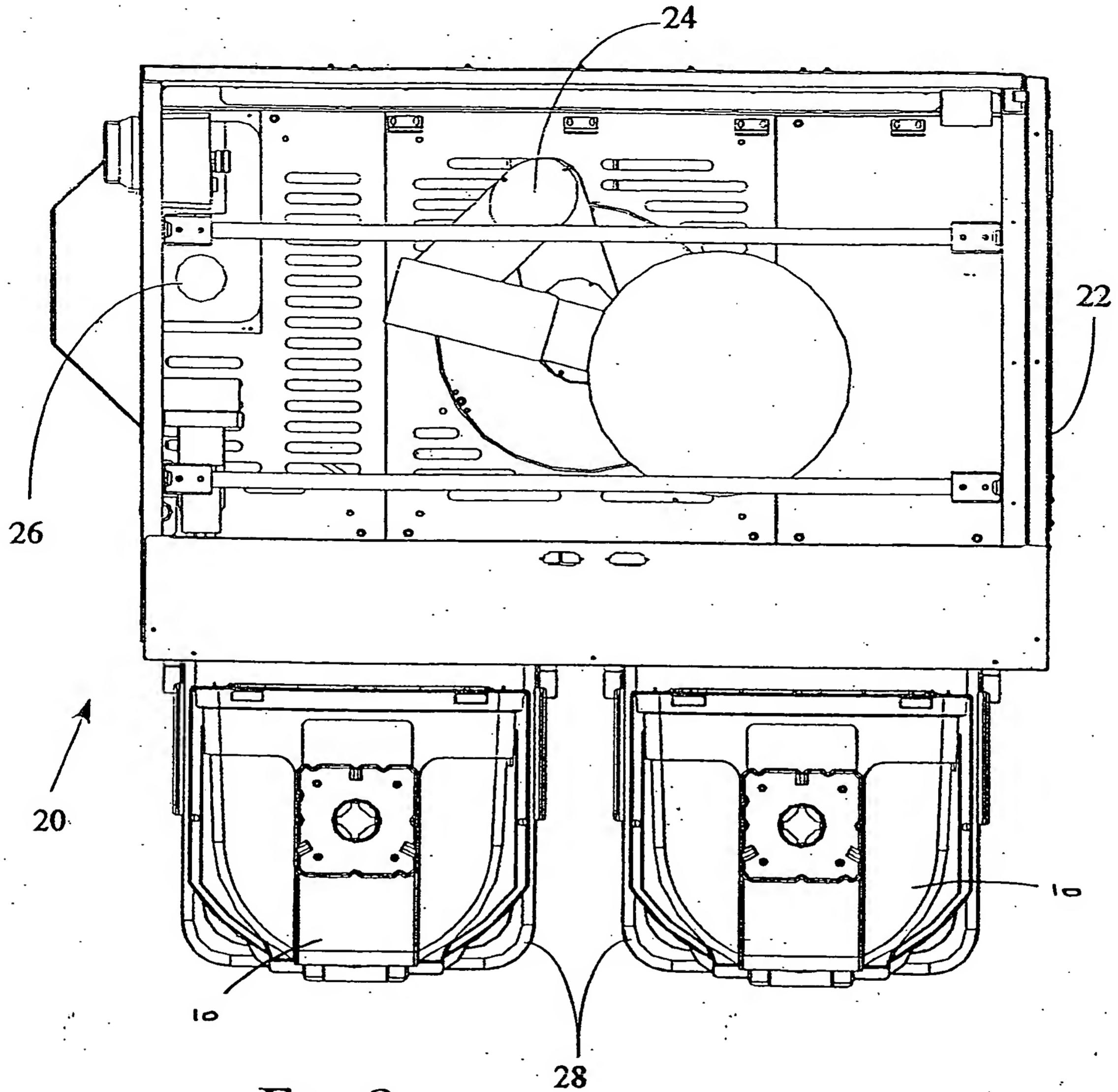


FIG. 2

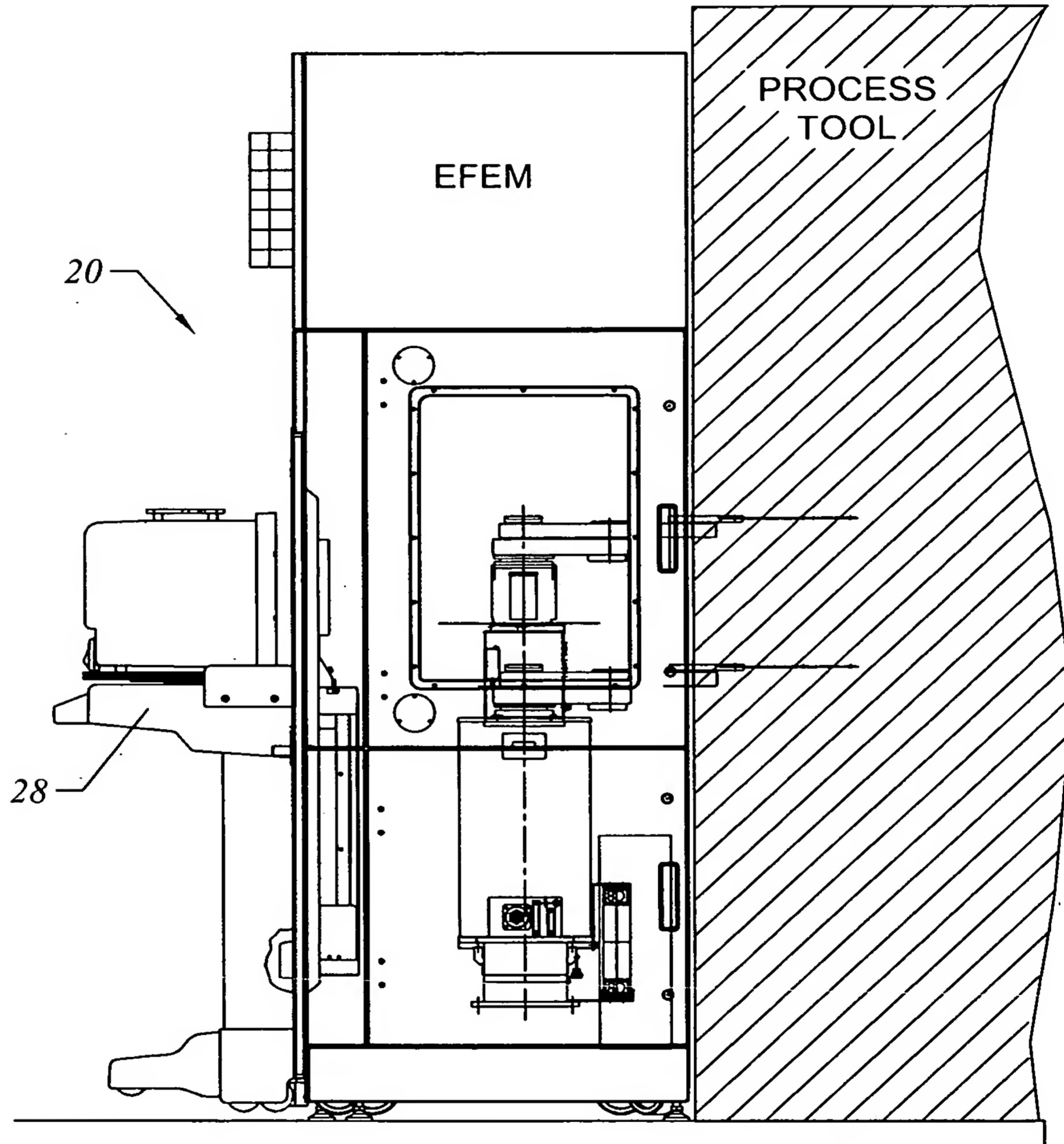


FIG. 3

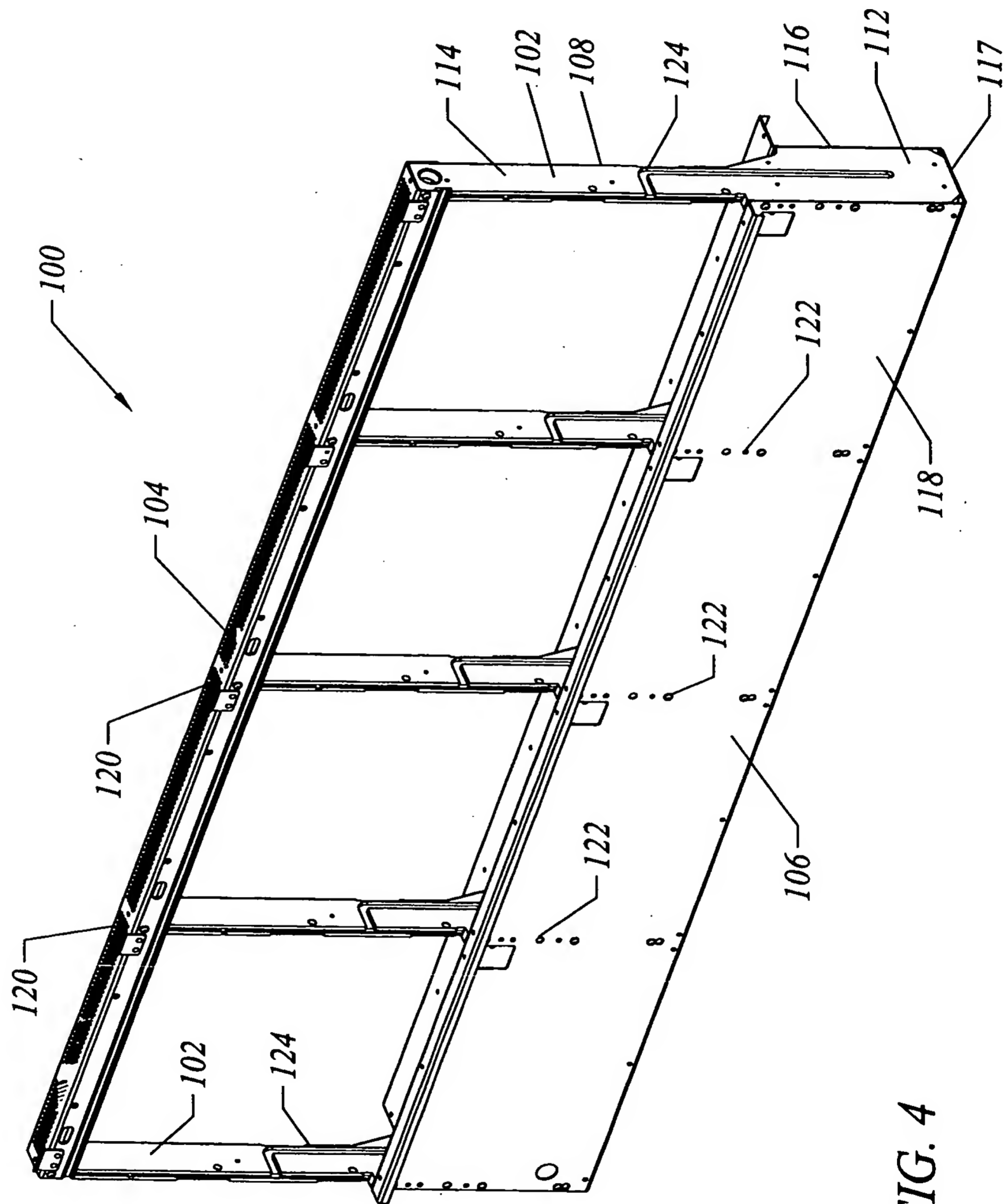


FIG. 4

207050" 2602800T

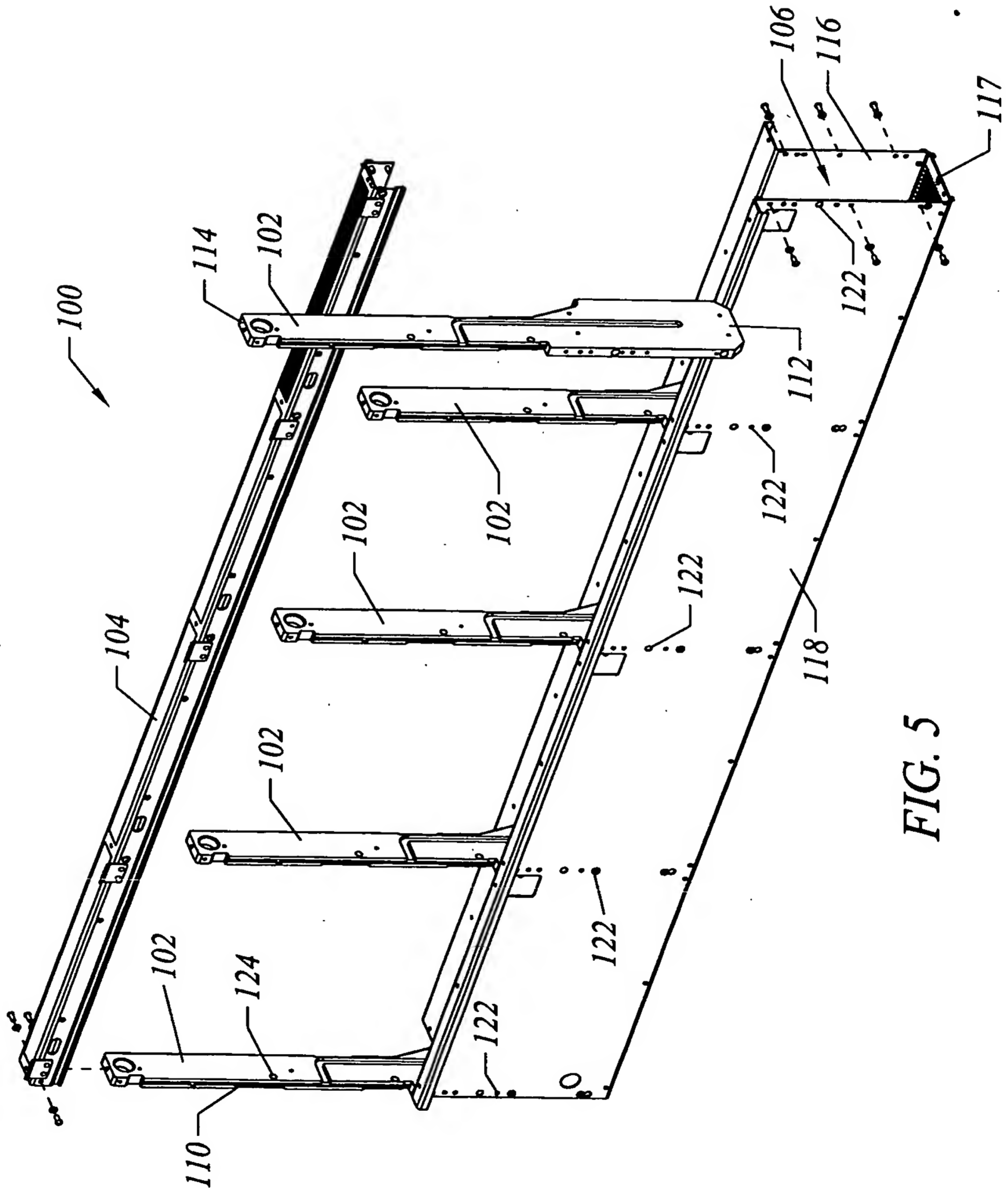


FIG. 5

20100120 20100120

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM
Docket No.: A-2008197US0 Inventor(s): Anthony C. Bonora
Serial No.: Unknown Attorney: Scott D. Sanford
Confirm No.: Unknown Phone: (415) 362-3800
Filed: Herewith Express Mail No.: EL670726215US

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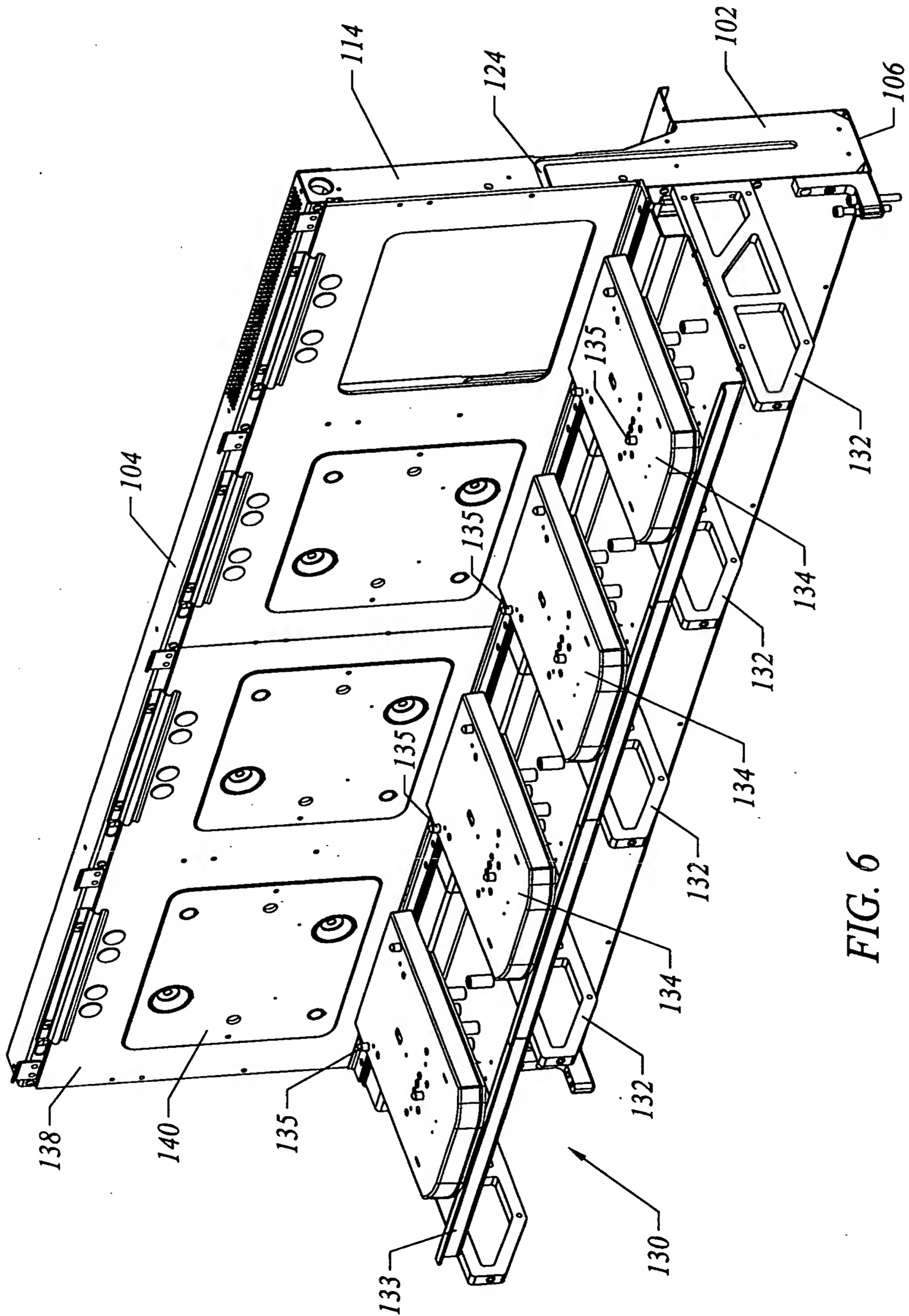


FIG. 6

SECRET

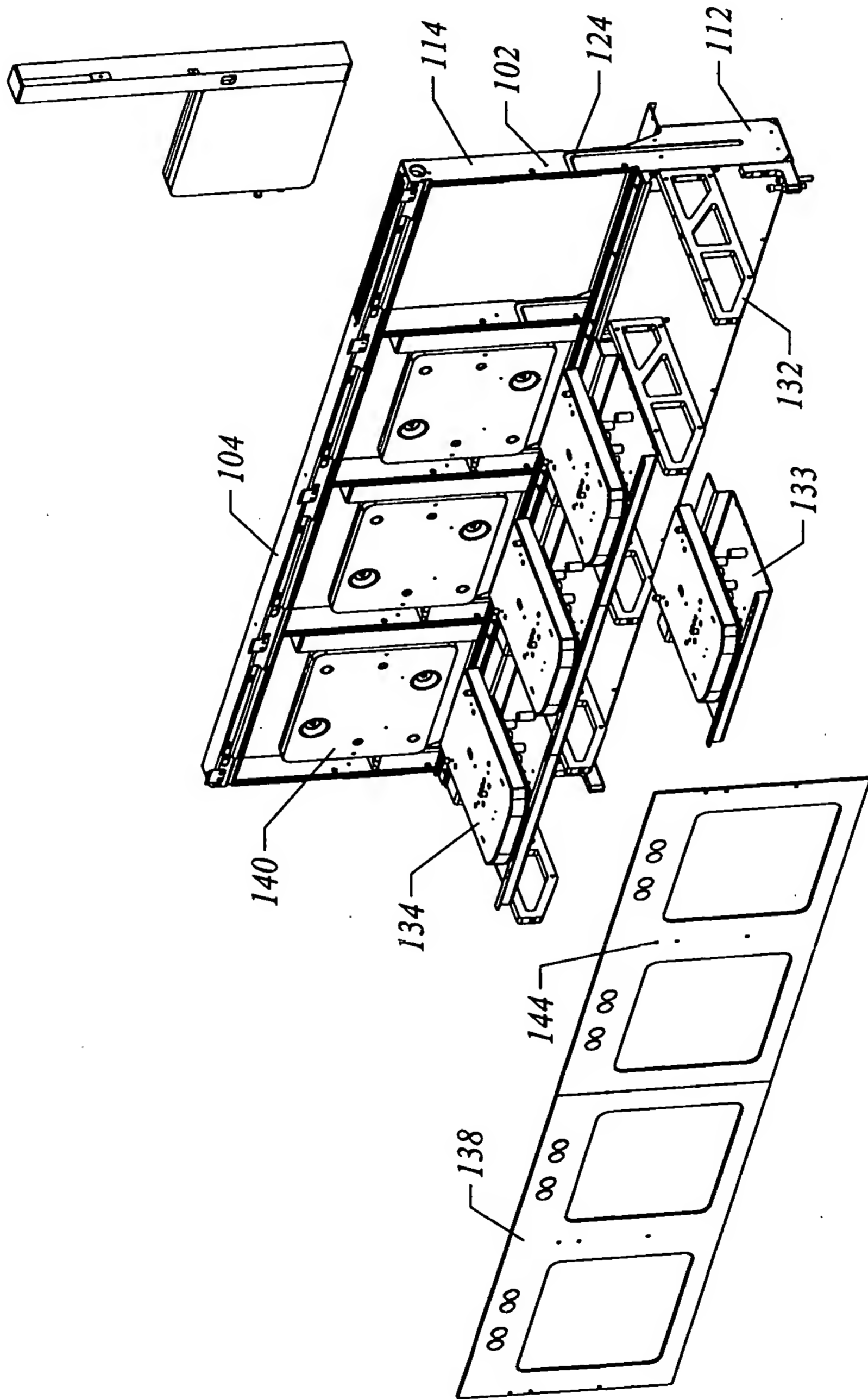


FIG. 7

2070430 2602807

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM
Docket No.: SYS08197US0 Inventor(s): Anthony C. Bo
Serial No.: Unknown Attorney: Scott D. Sanford
Confirm No.: Unknown Phone: (415) 362-3800
Filed: Herewith Express Mail No.: EL670726215US

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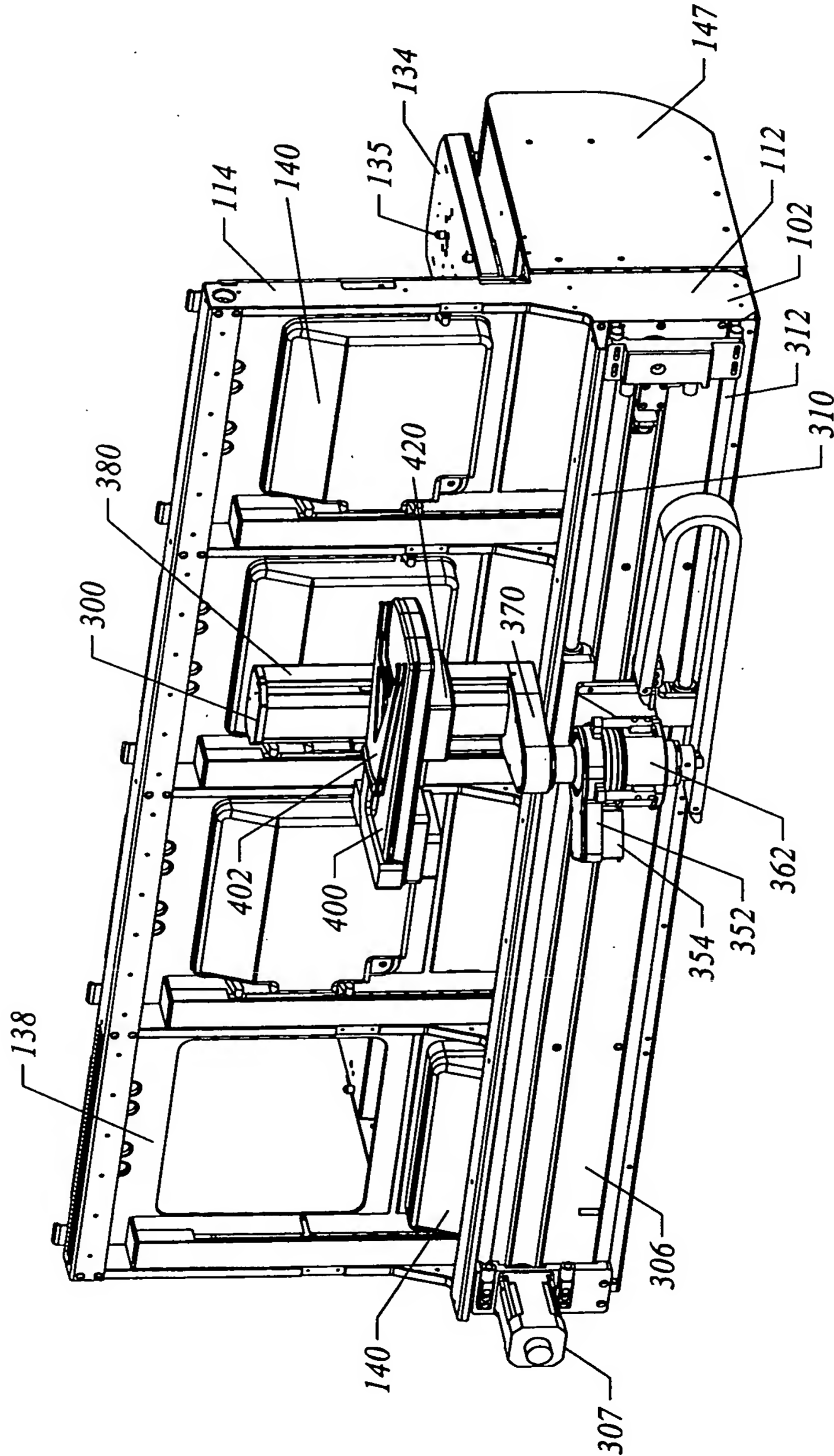


FIG. 8

SECRET

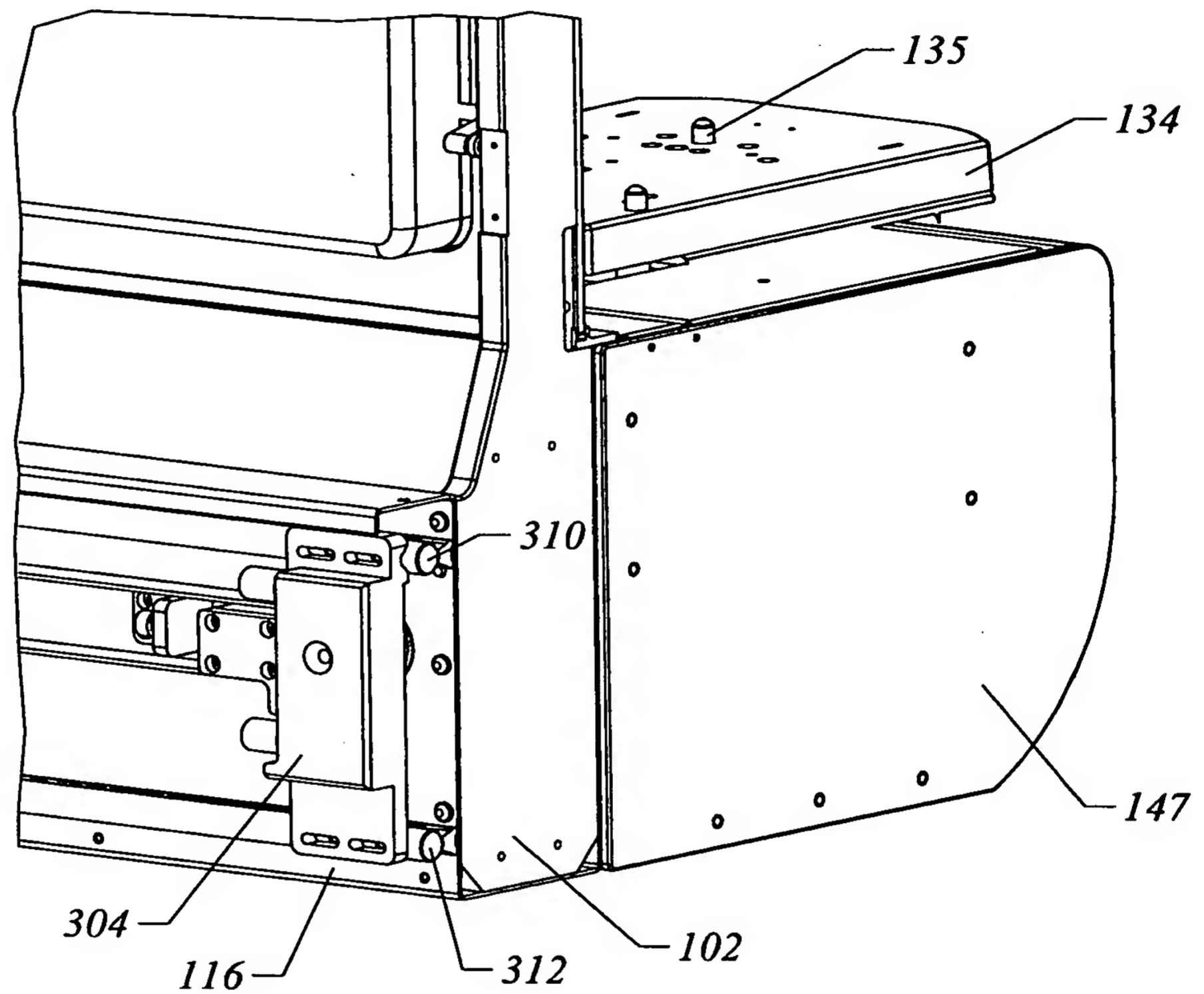
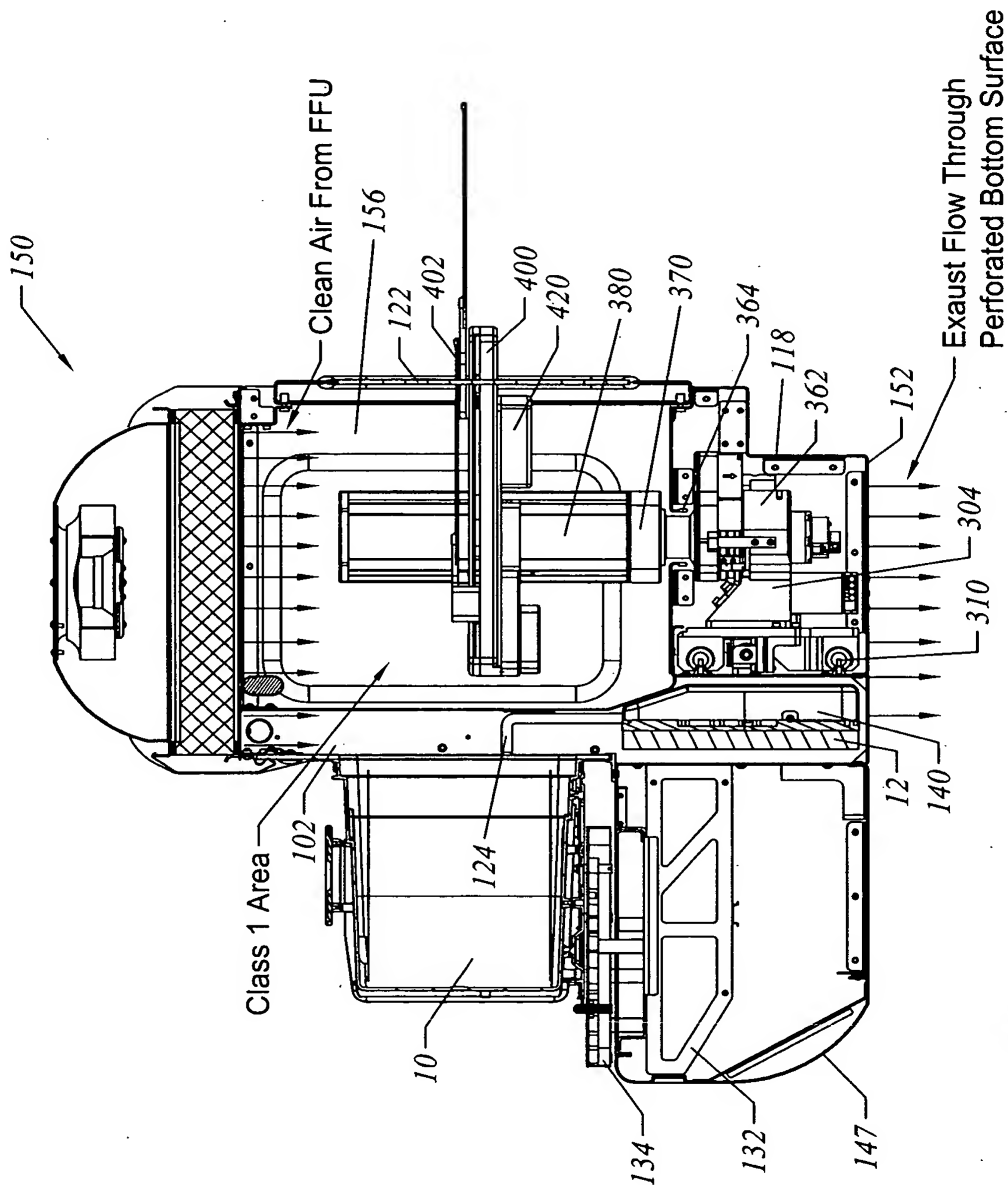


FIG. 9

10037092-030402

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM
Docket No.: ASYS08197US0 Inventor(s): Anthony C. Borja
Serial No.: Unknown Attorney: Scott D. Sanford
Confirm: Unknown Phone: (415) 362-3800
Filed: Herewith Express Mail No.: EL670726215US



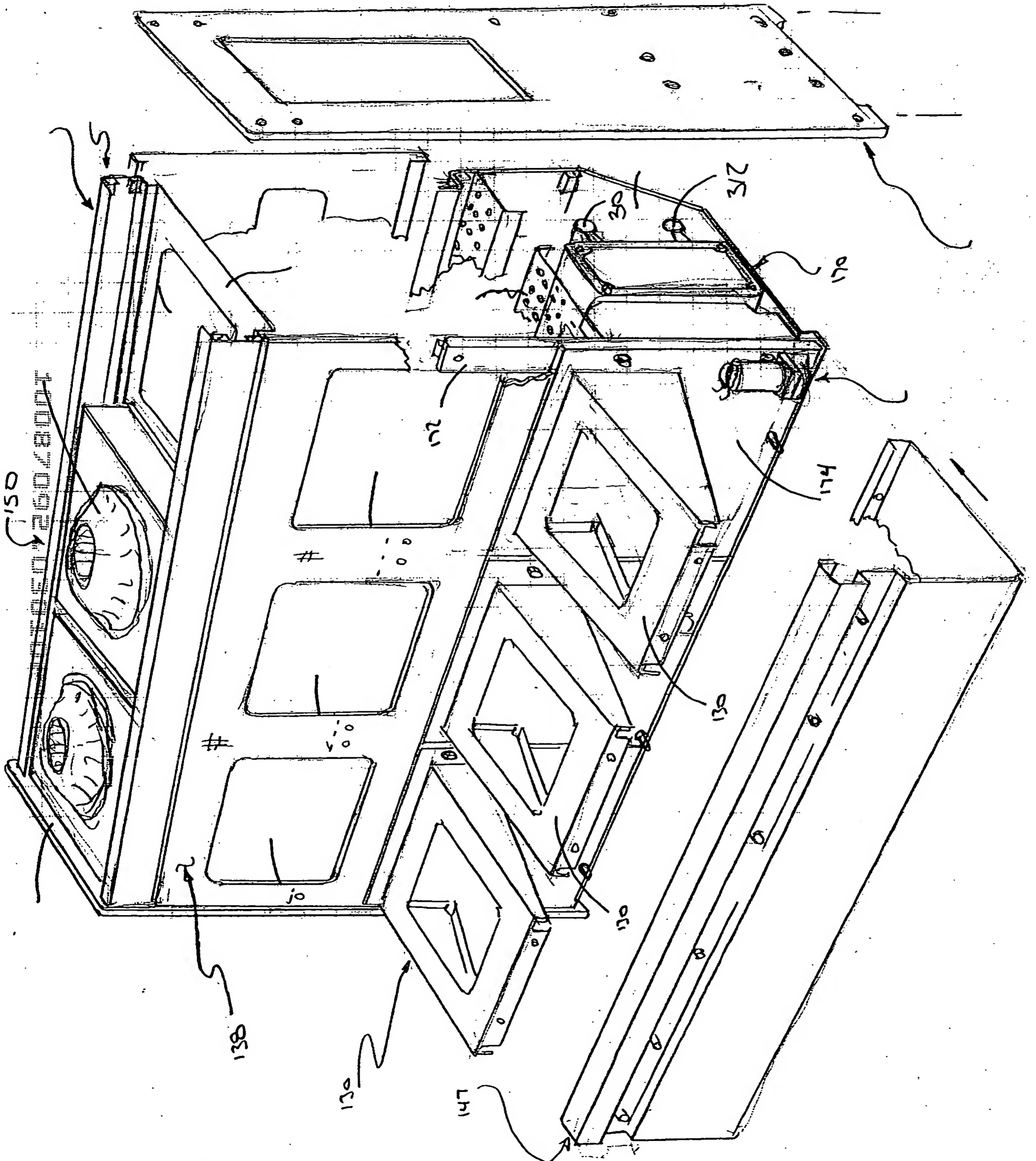


FIG. 11

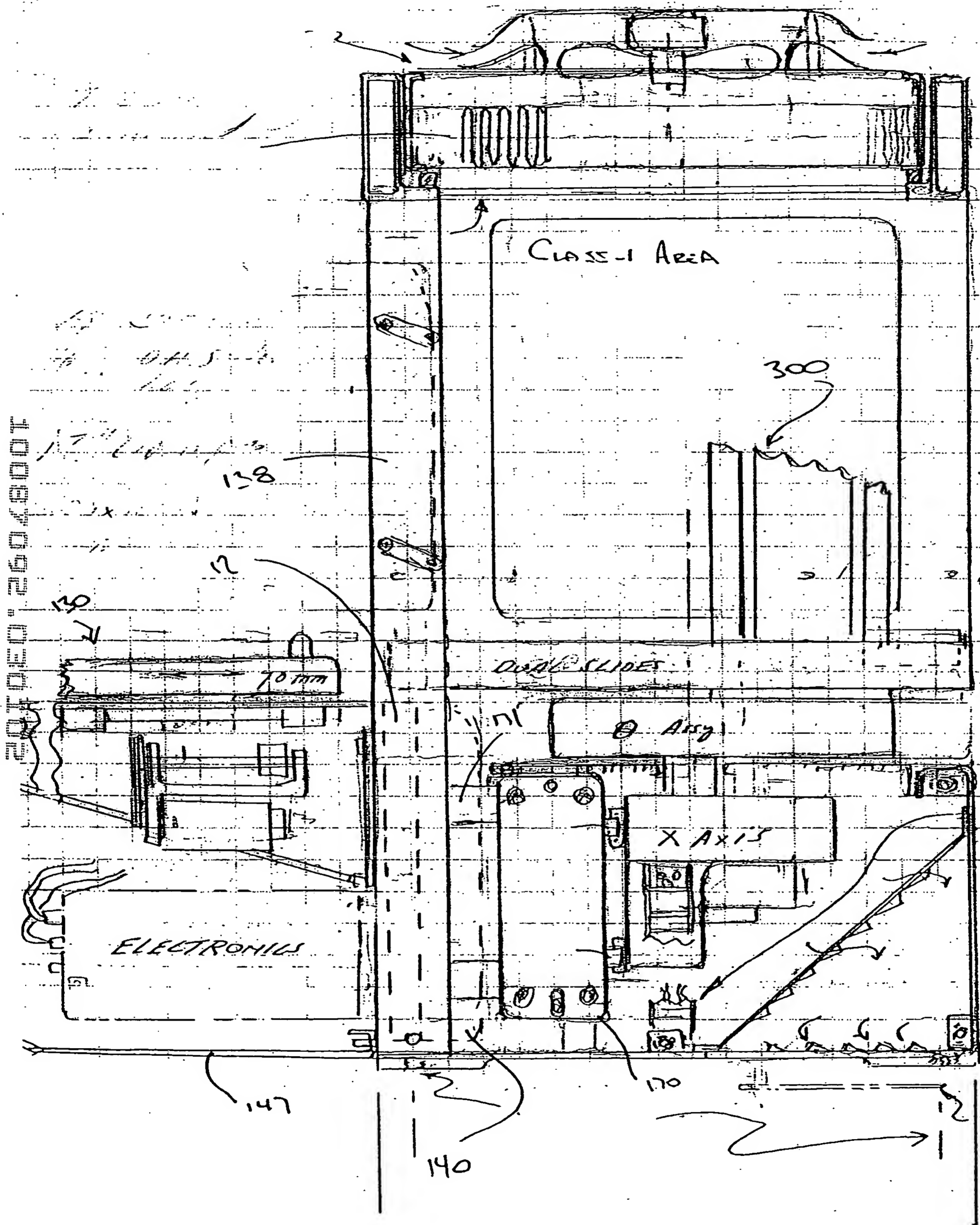


FIG. 12

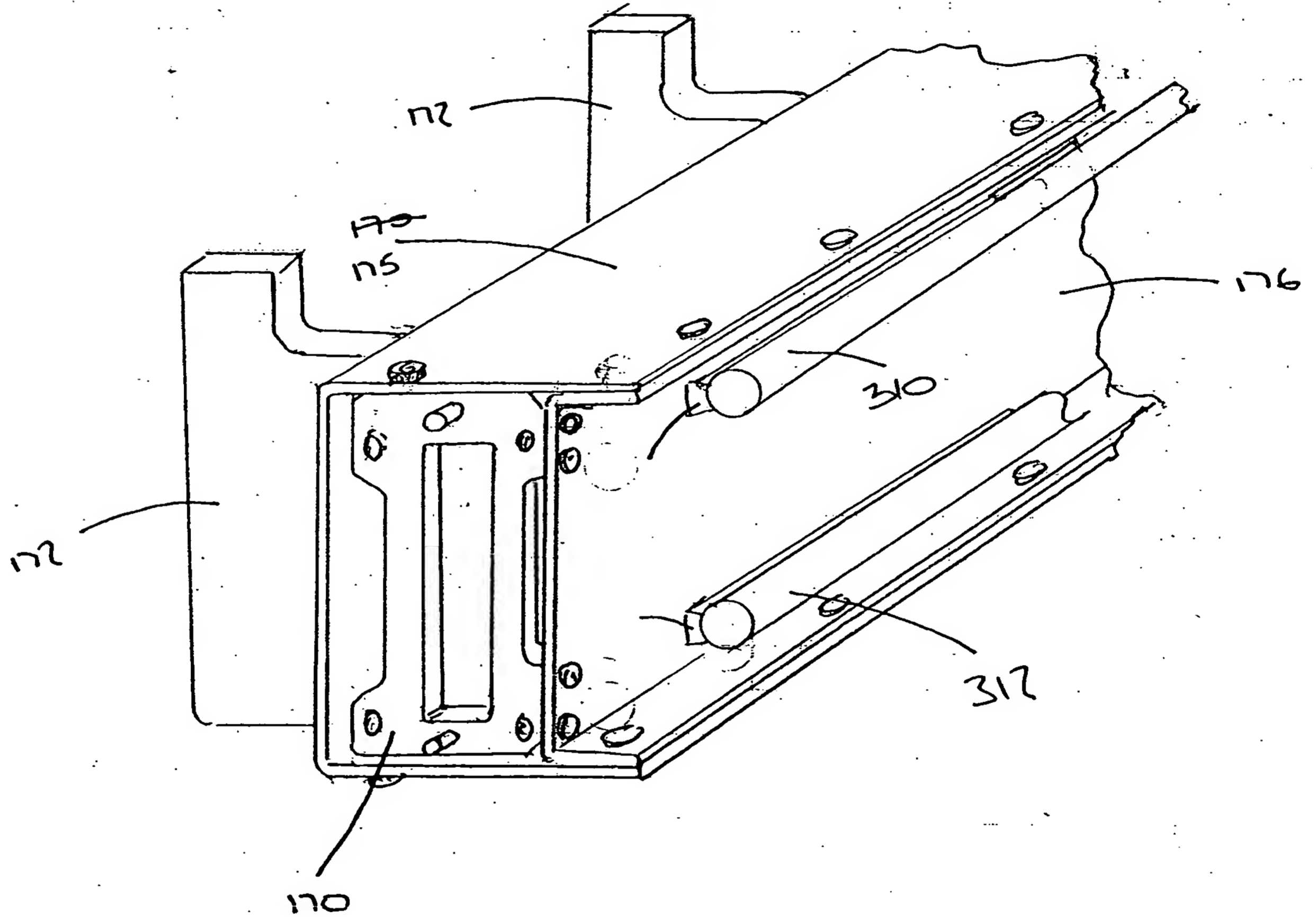


FIG. 13

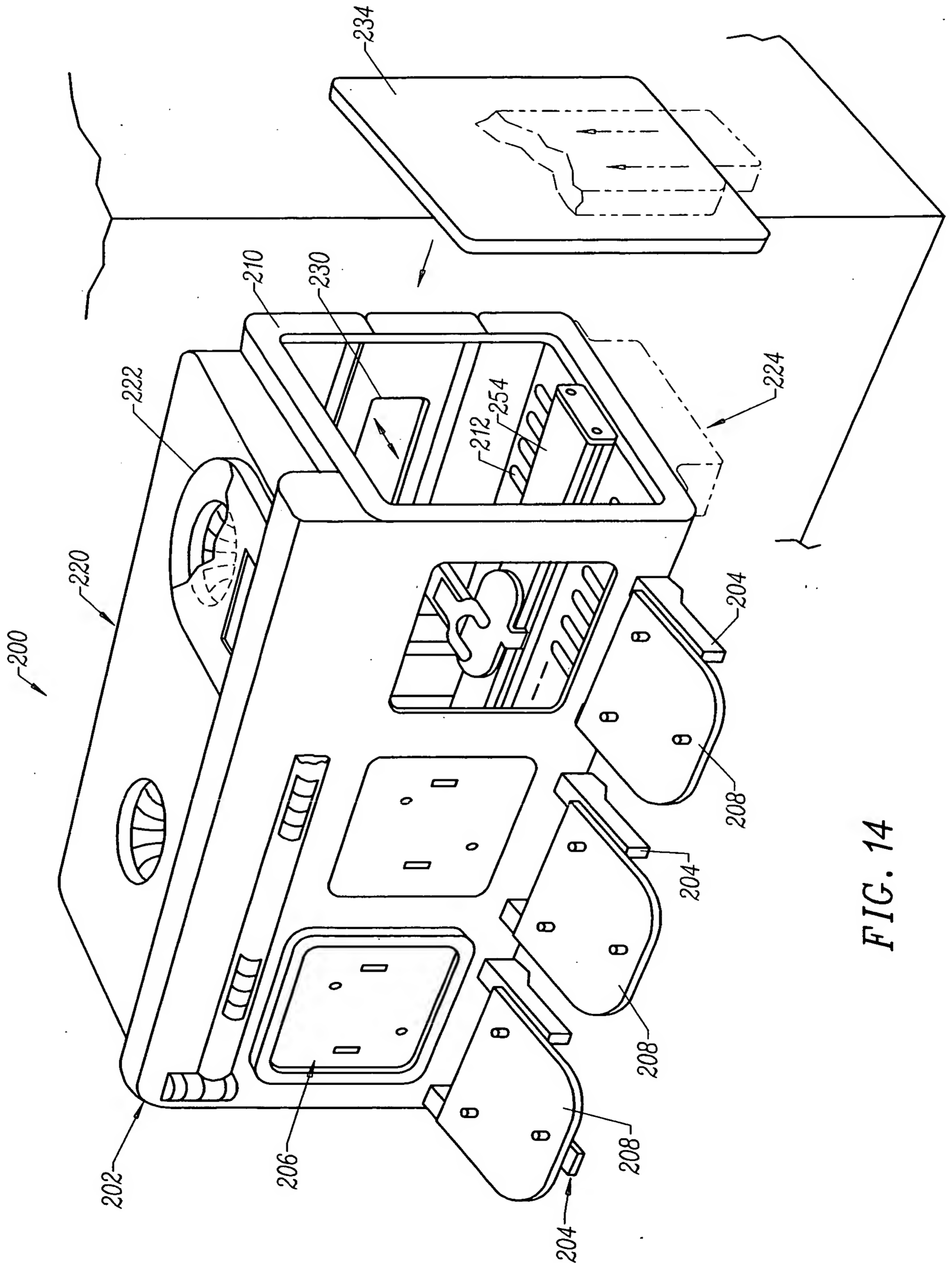


FIG. 14

207060 2604300T

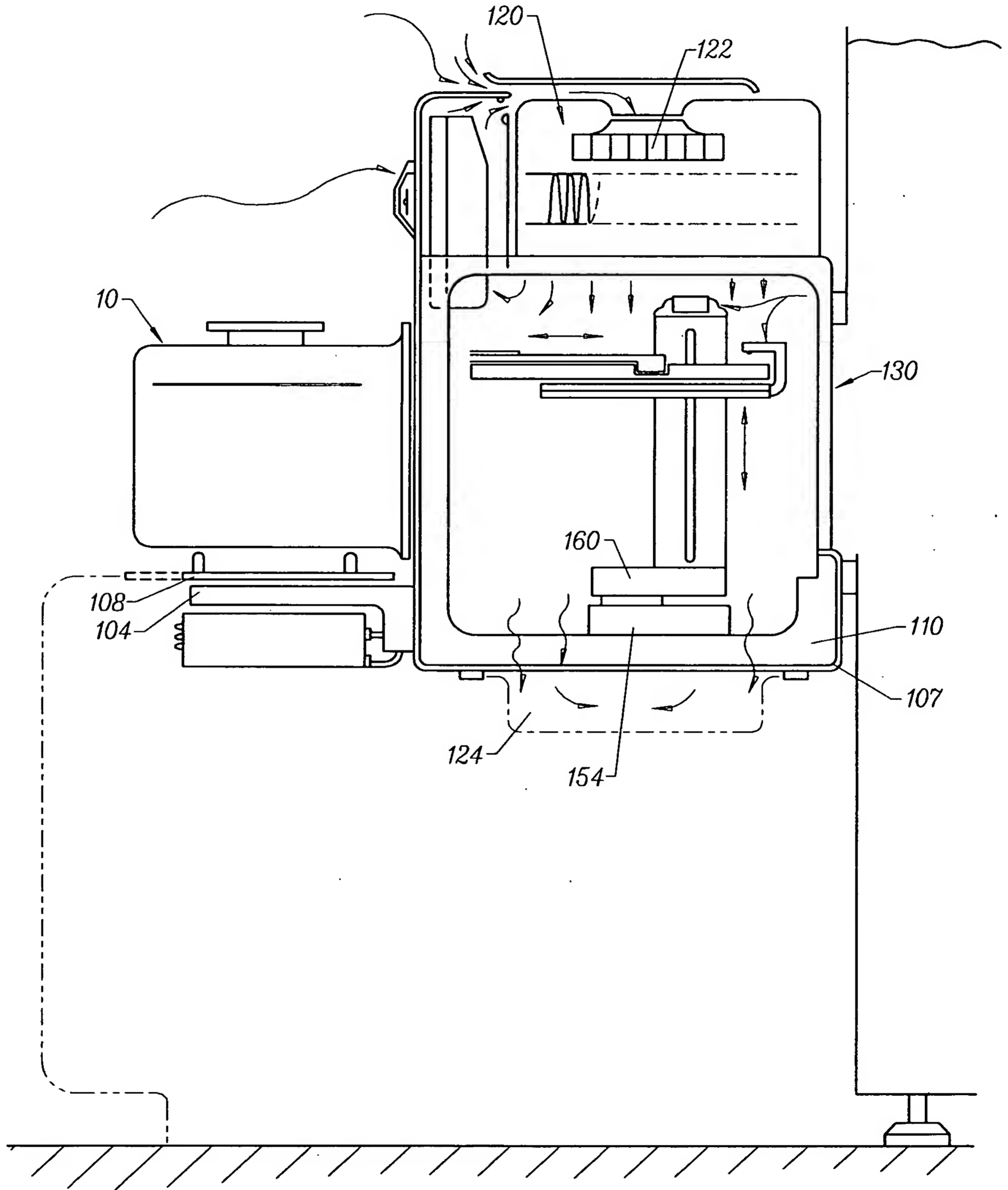
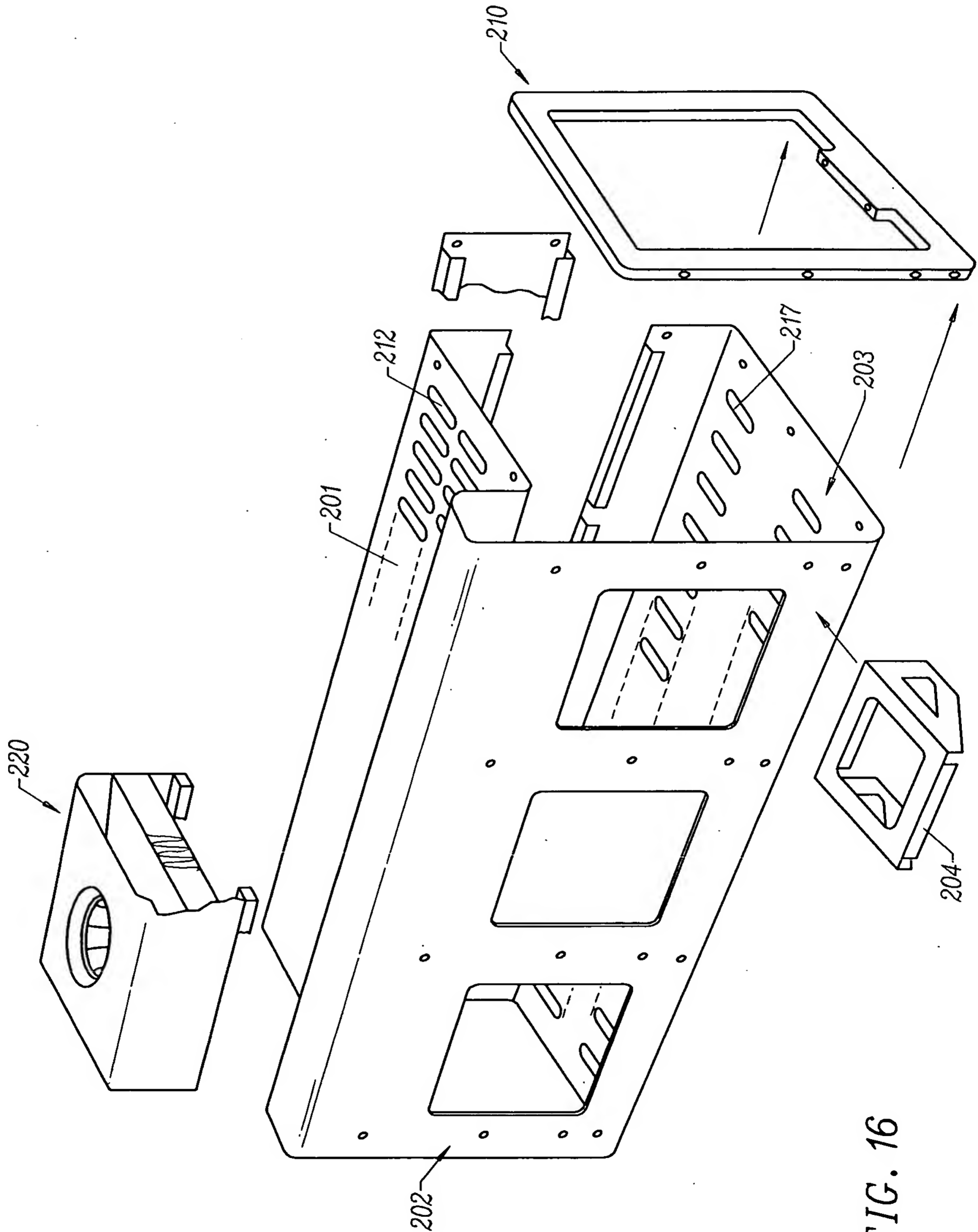


FIG. 15



100% 100%

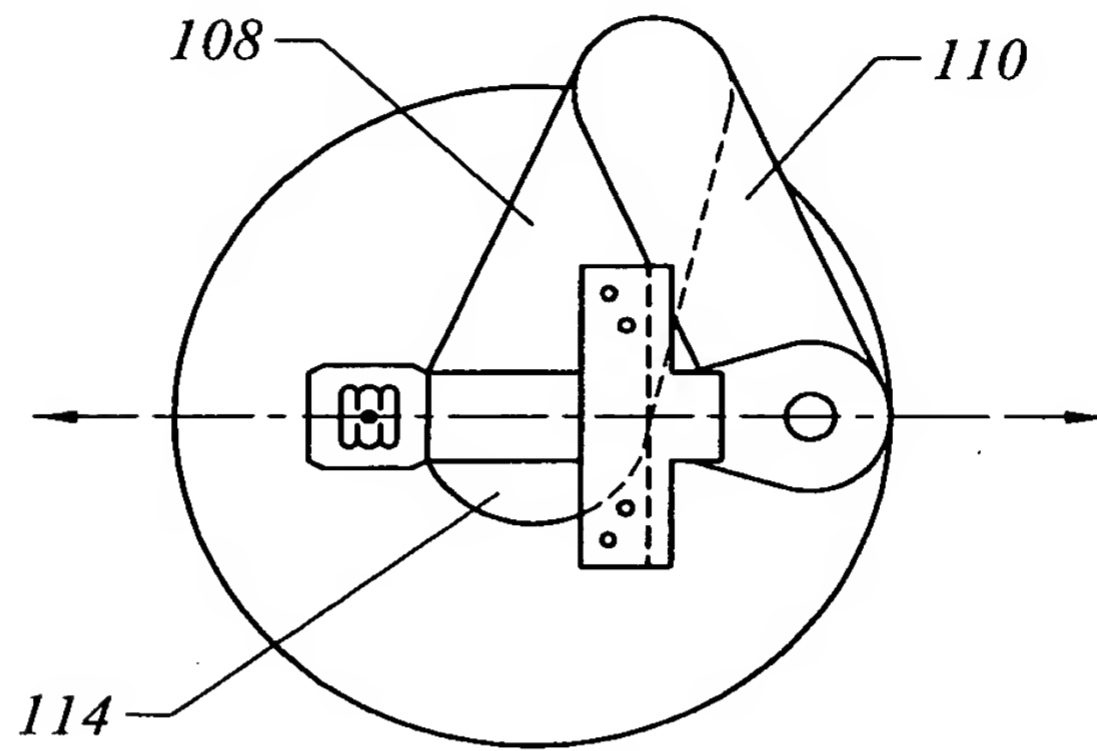


FIG. 17A
(Prior Art)

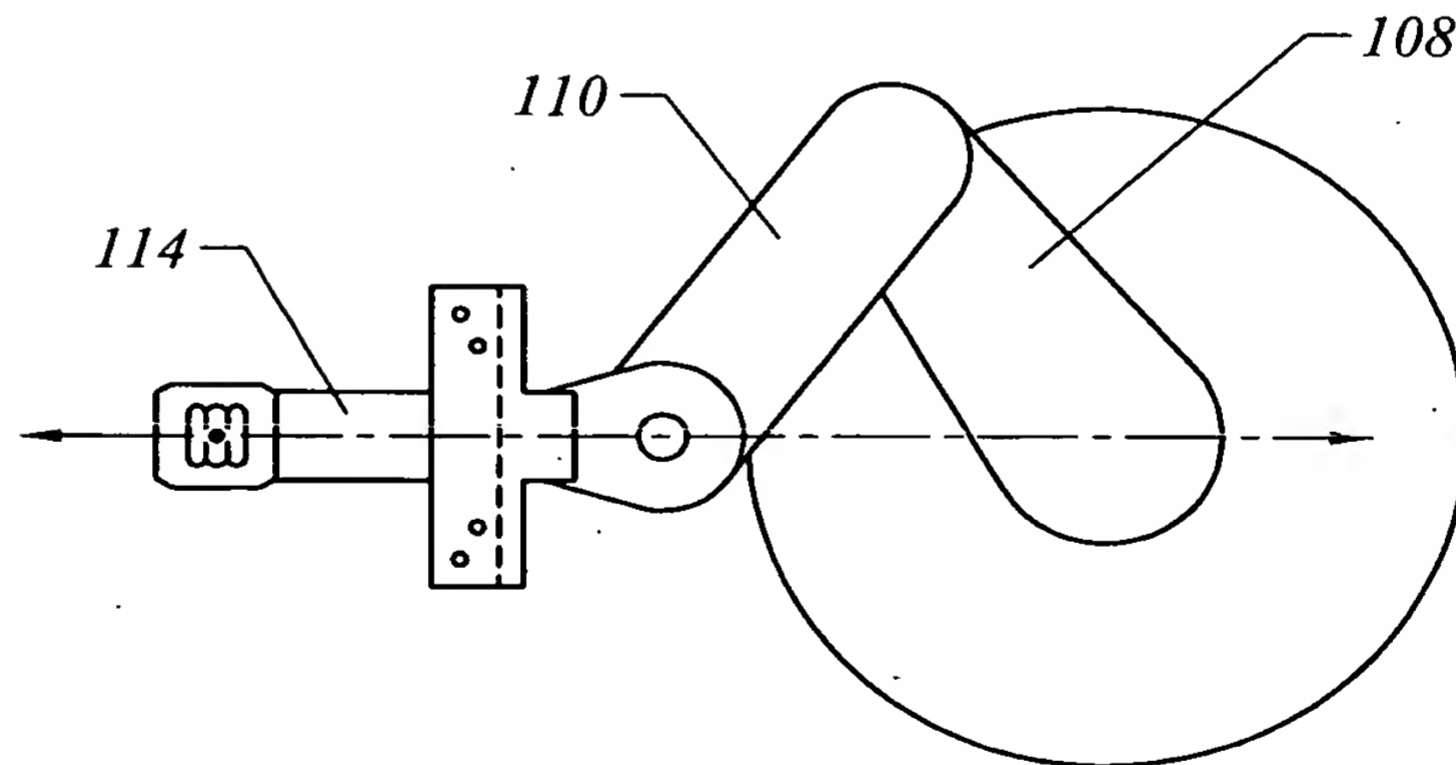


FIG. 17B
(Prior Art)

20100826020007

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM
Docket No.: EYS08197US0 Inventor(s): Anthony C. Bou
Serial No.: Unknown Attorney: Scott D. Sanford
Confirm No.: Unknown Phone: (415) 362-3800
Filed: Herewith Express Mail No.: EL670726215US

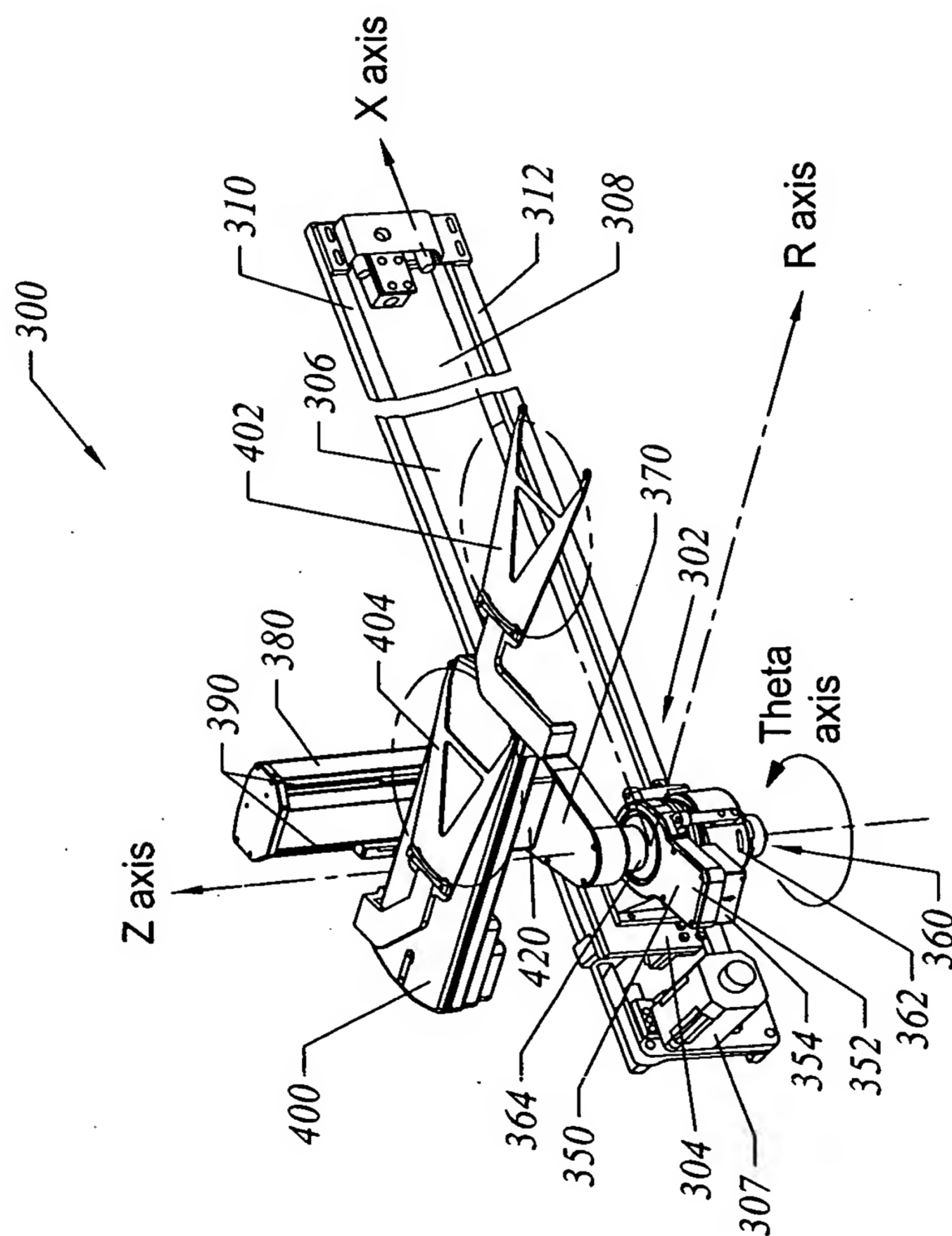


FIG. 18

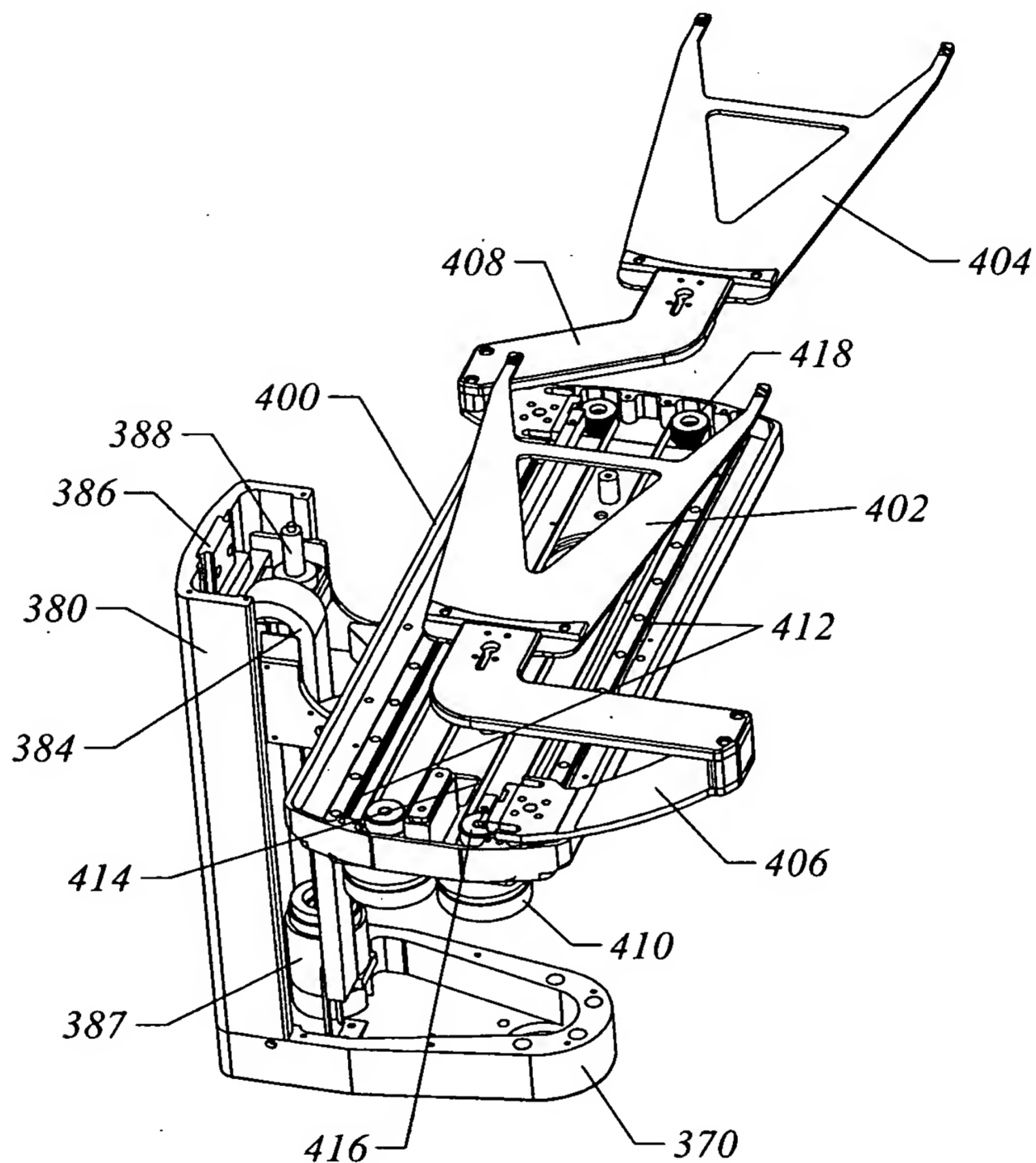


FIG. 19

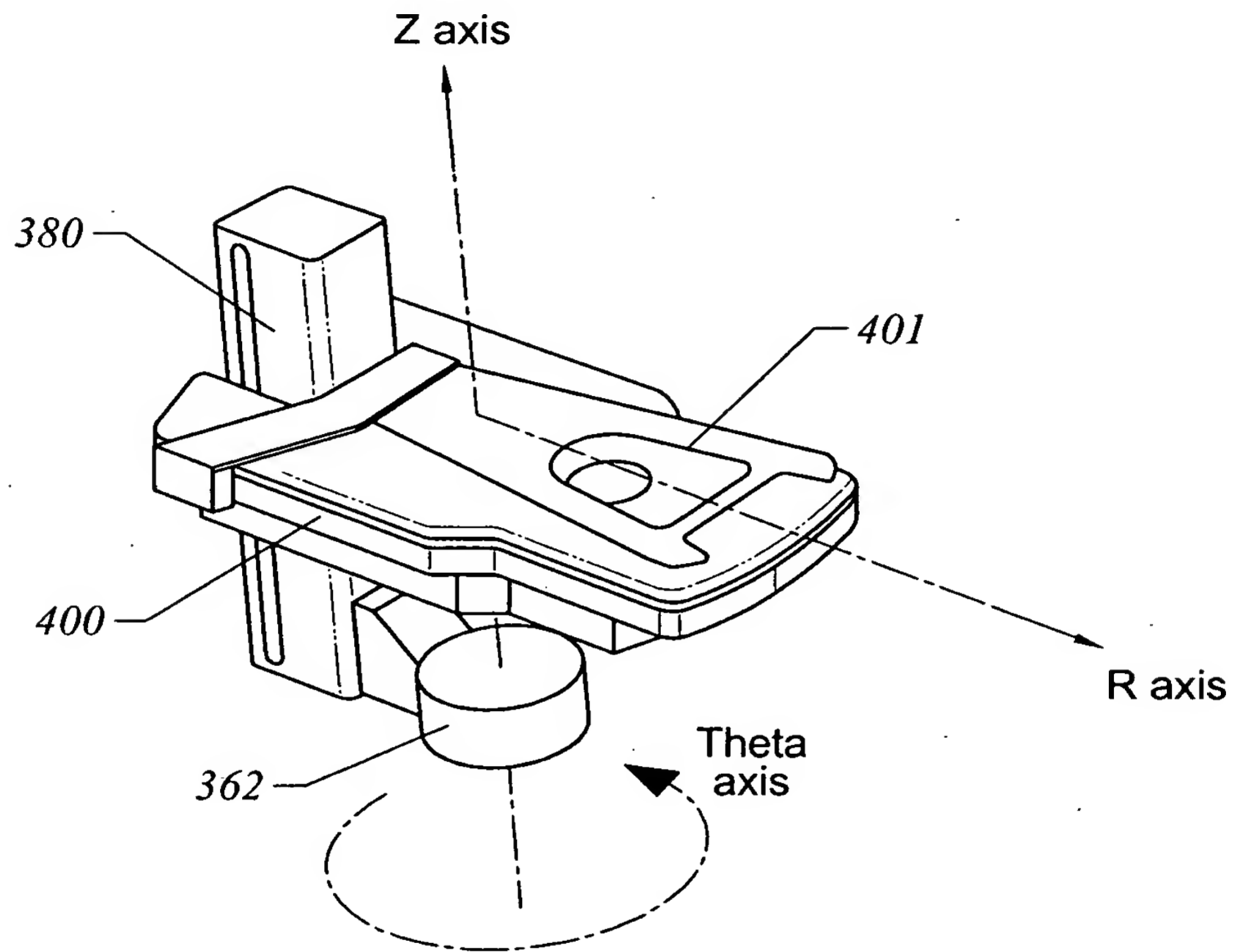


FIG. 20

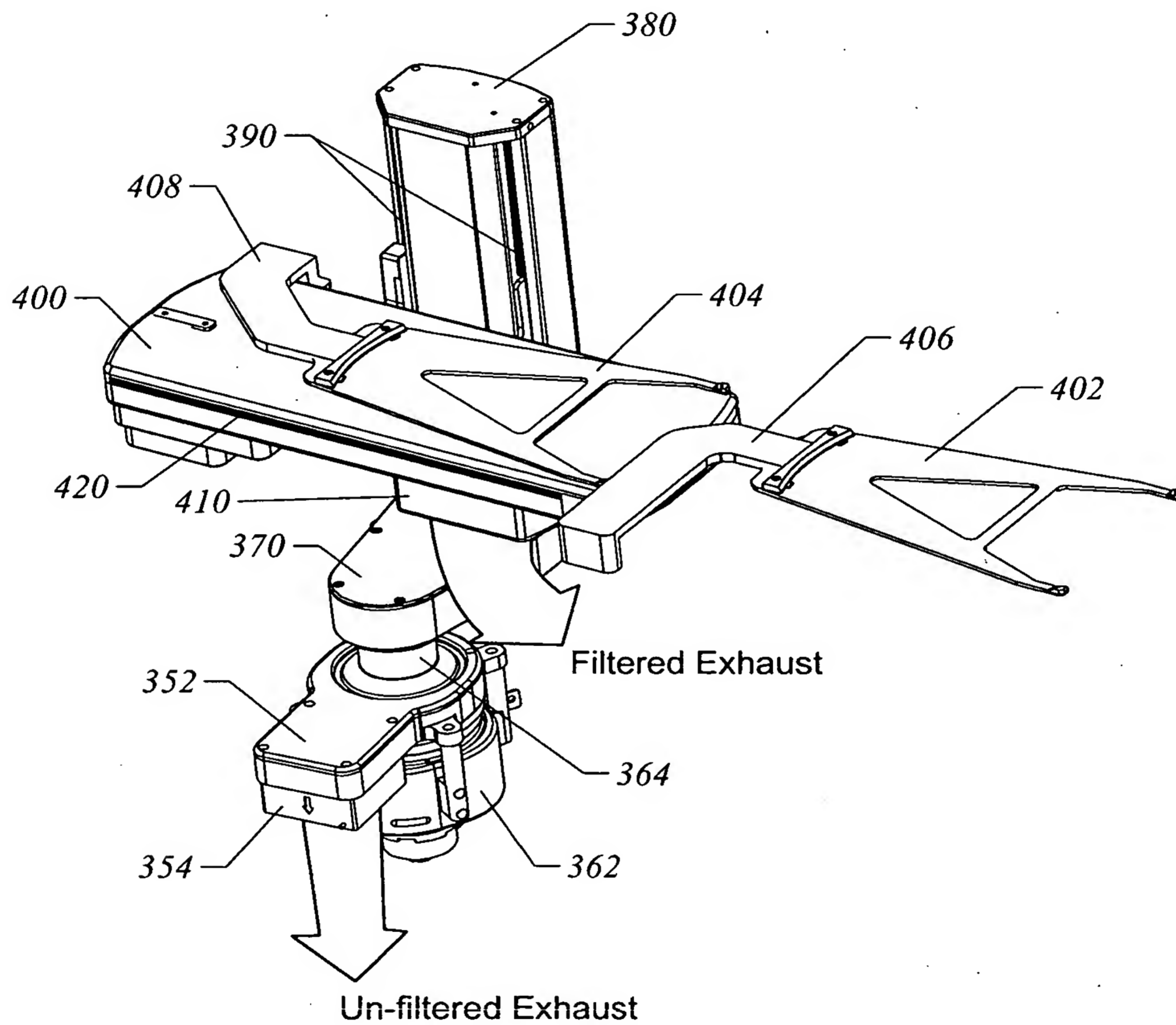


FIG. 21

10087092-030102

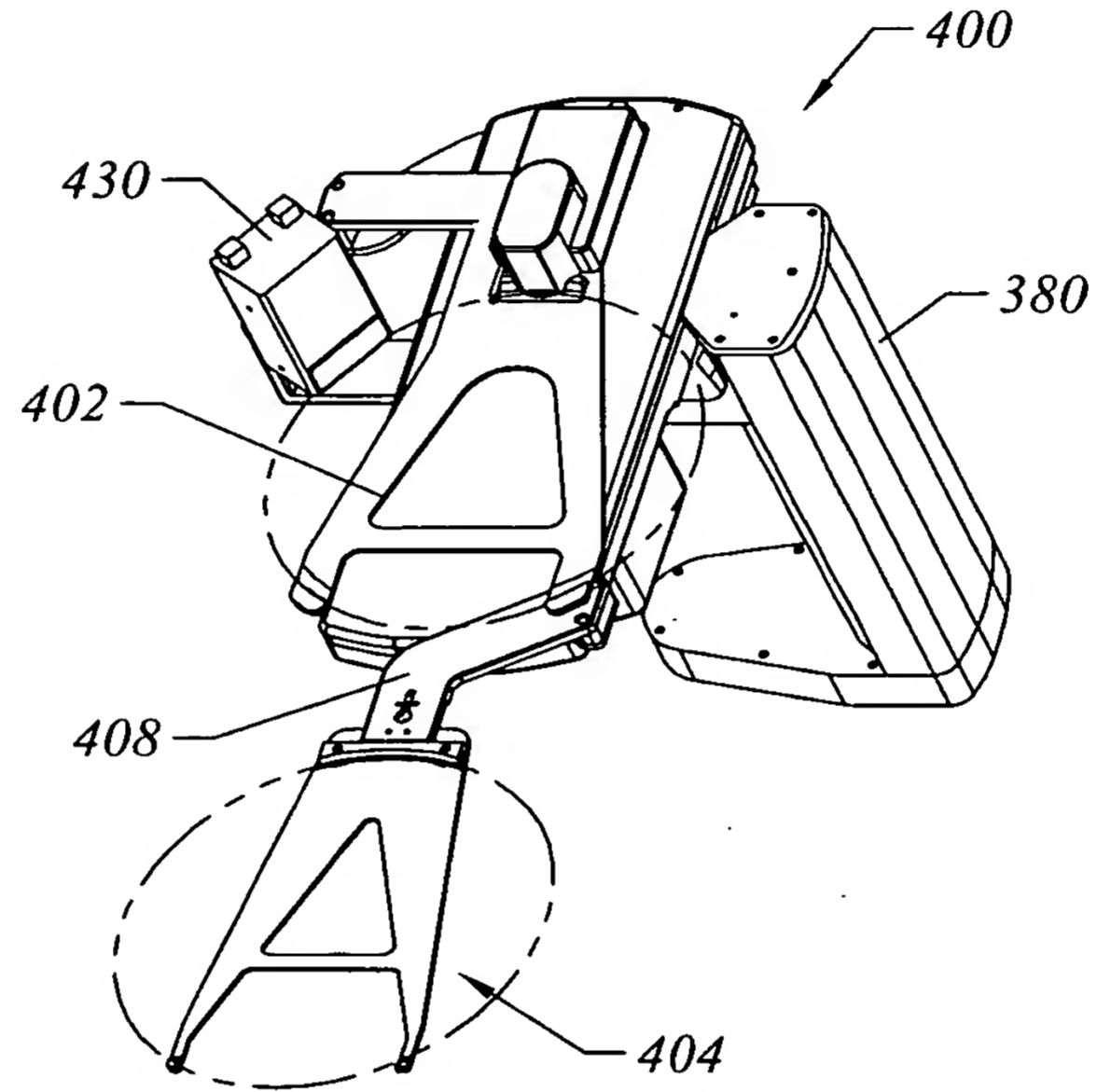


FIG. 22A

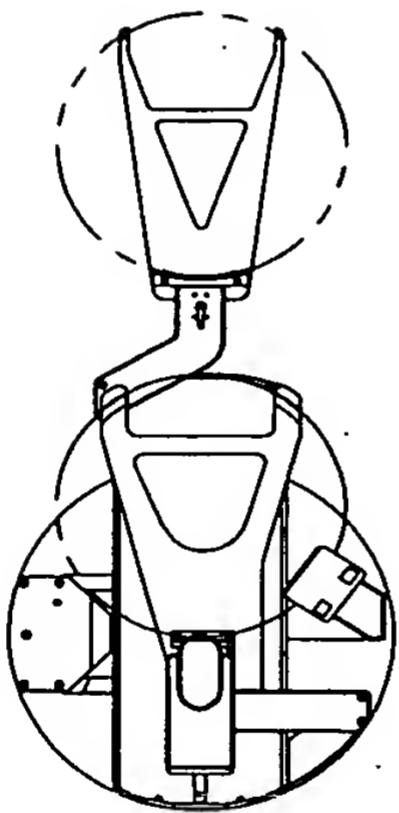


FIG. 22B

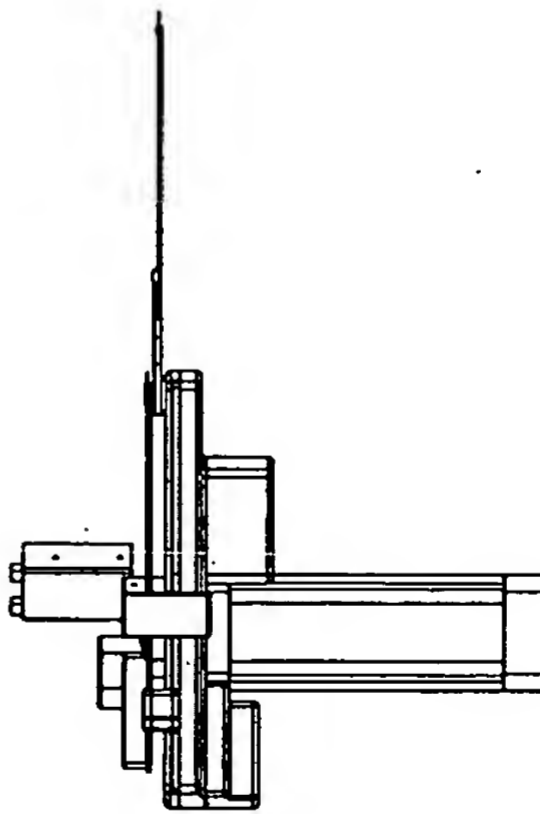


FIG. 22C

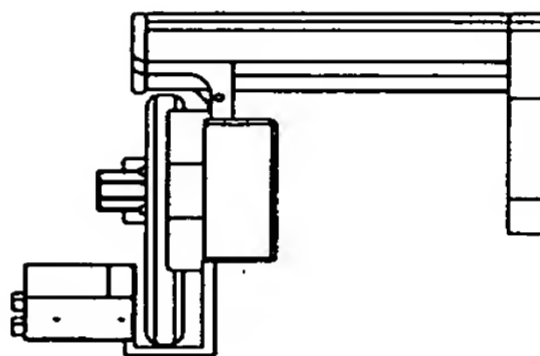


FIG. 22D

2010-03-26 10:28:00

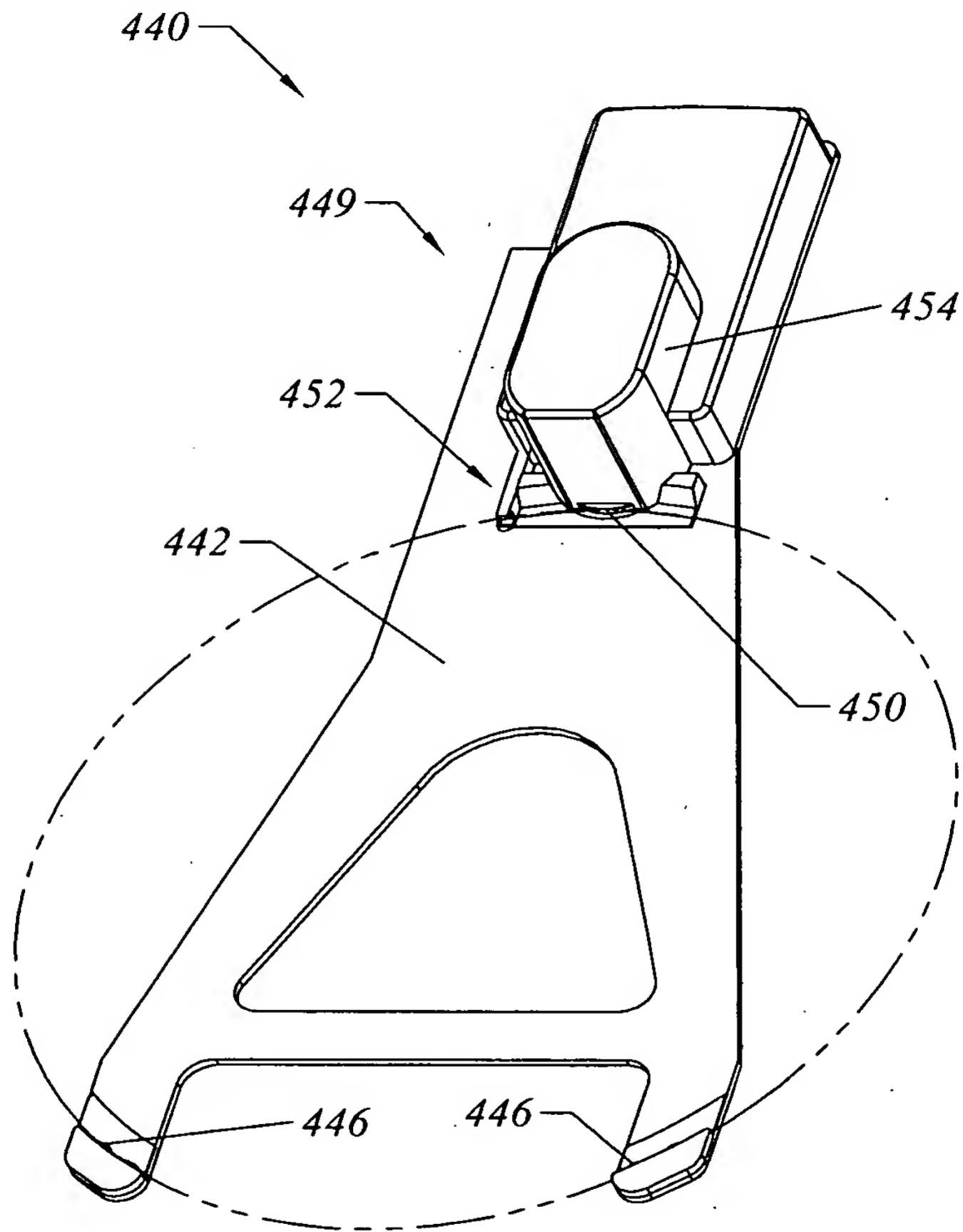


FIG. 23

20100826028001

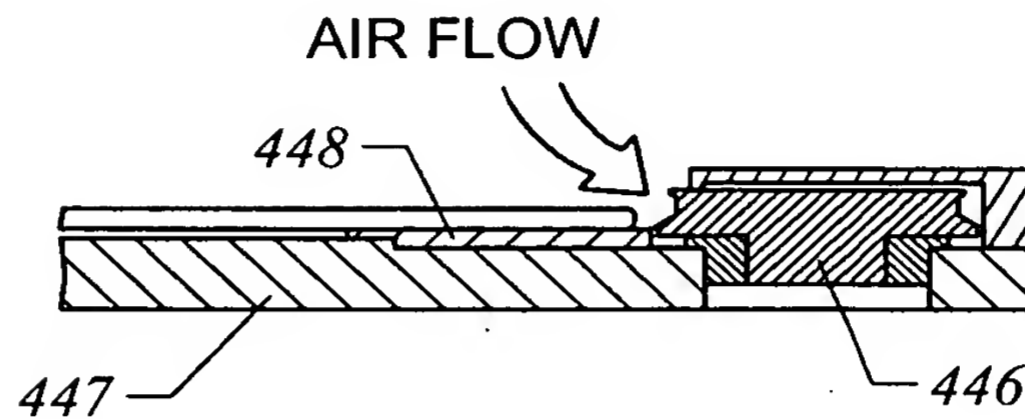


FIG. 24A

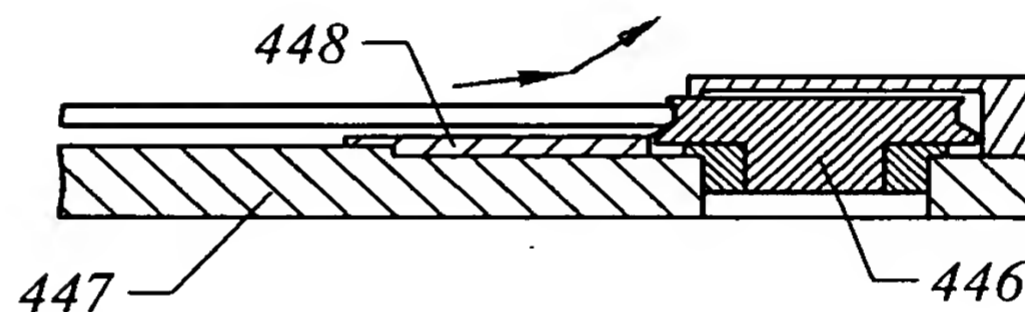


FIG. 24B

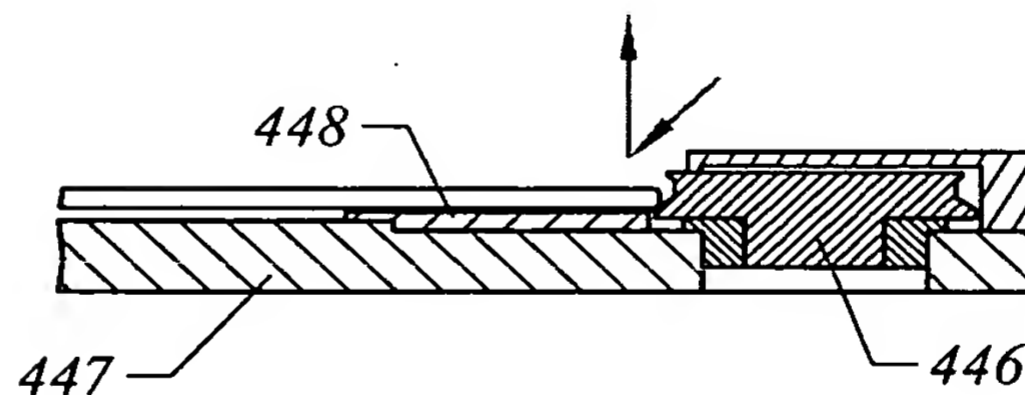


FIG. 24C

20100802 25043001

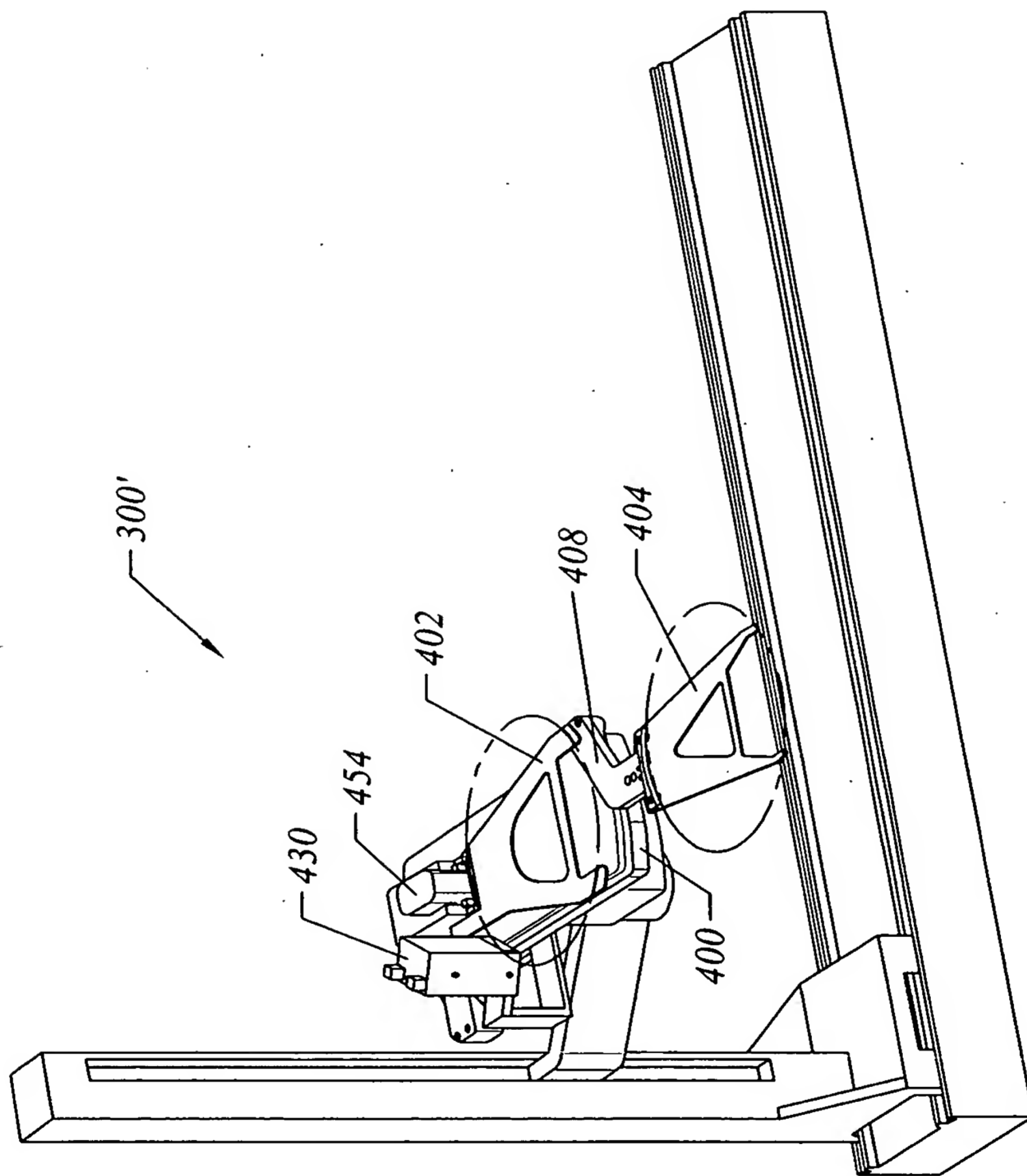


FIG. 25

20100726 26028007

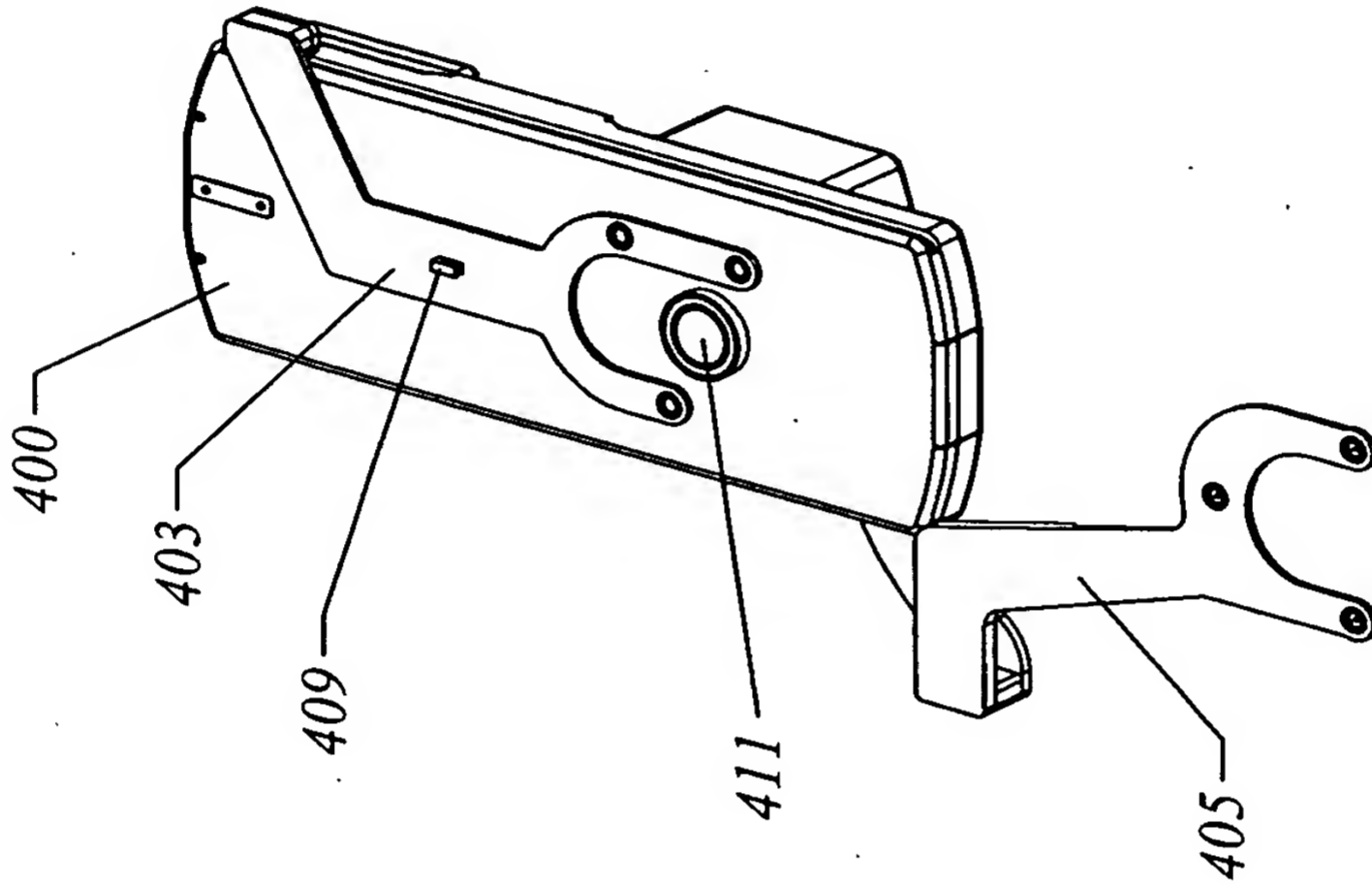


FIG. 26B

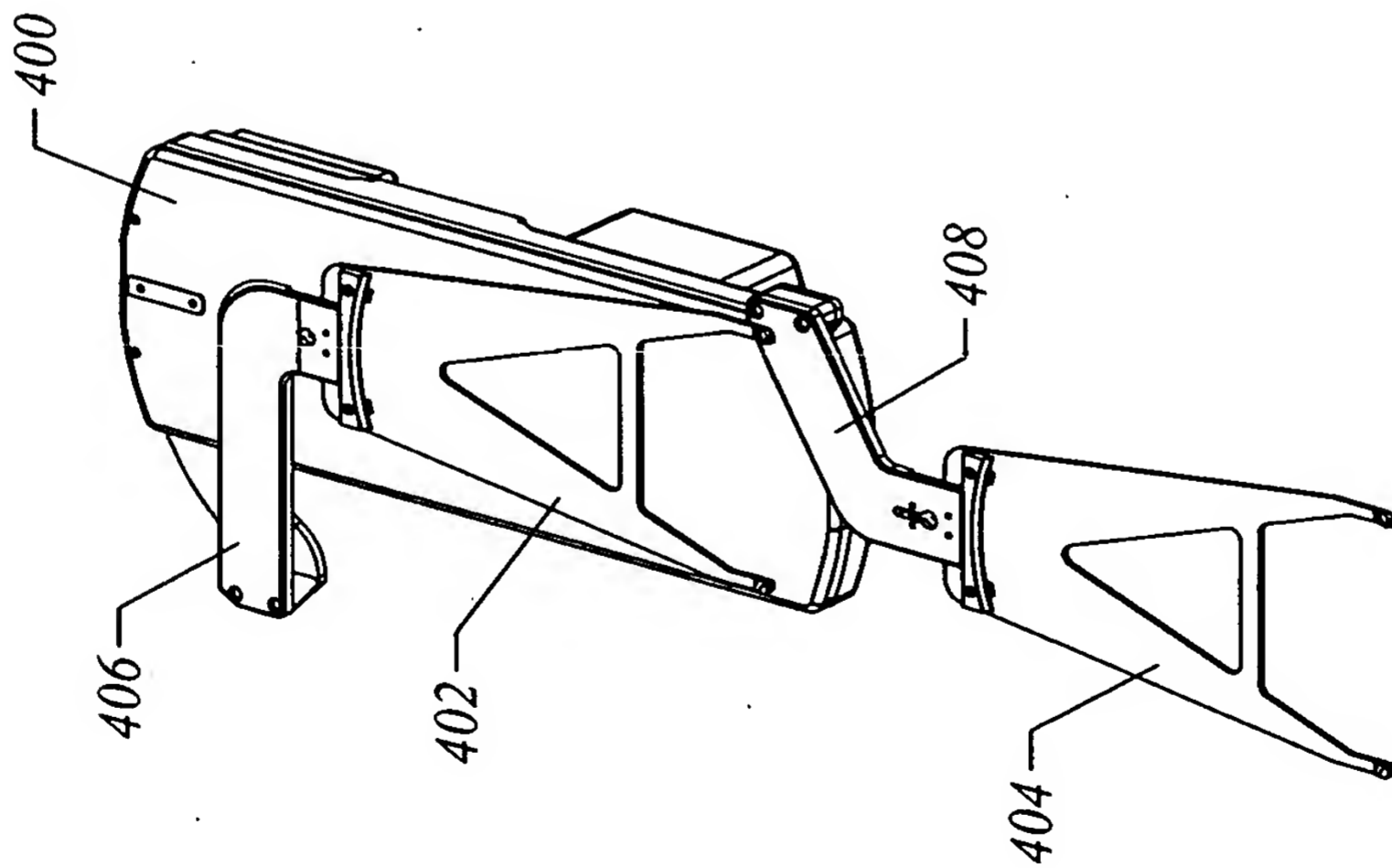
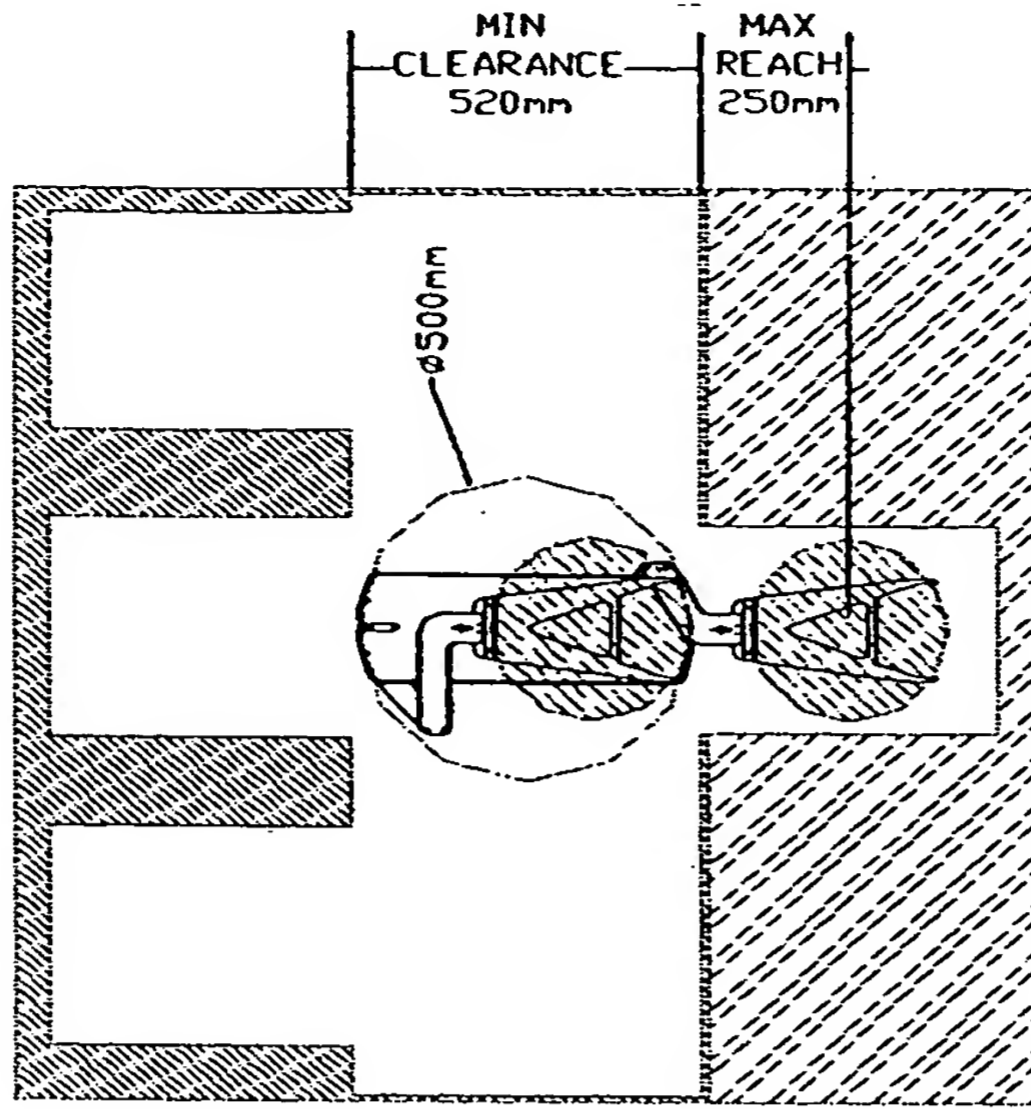


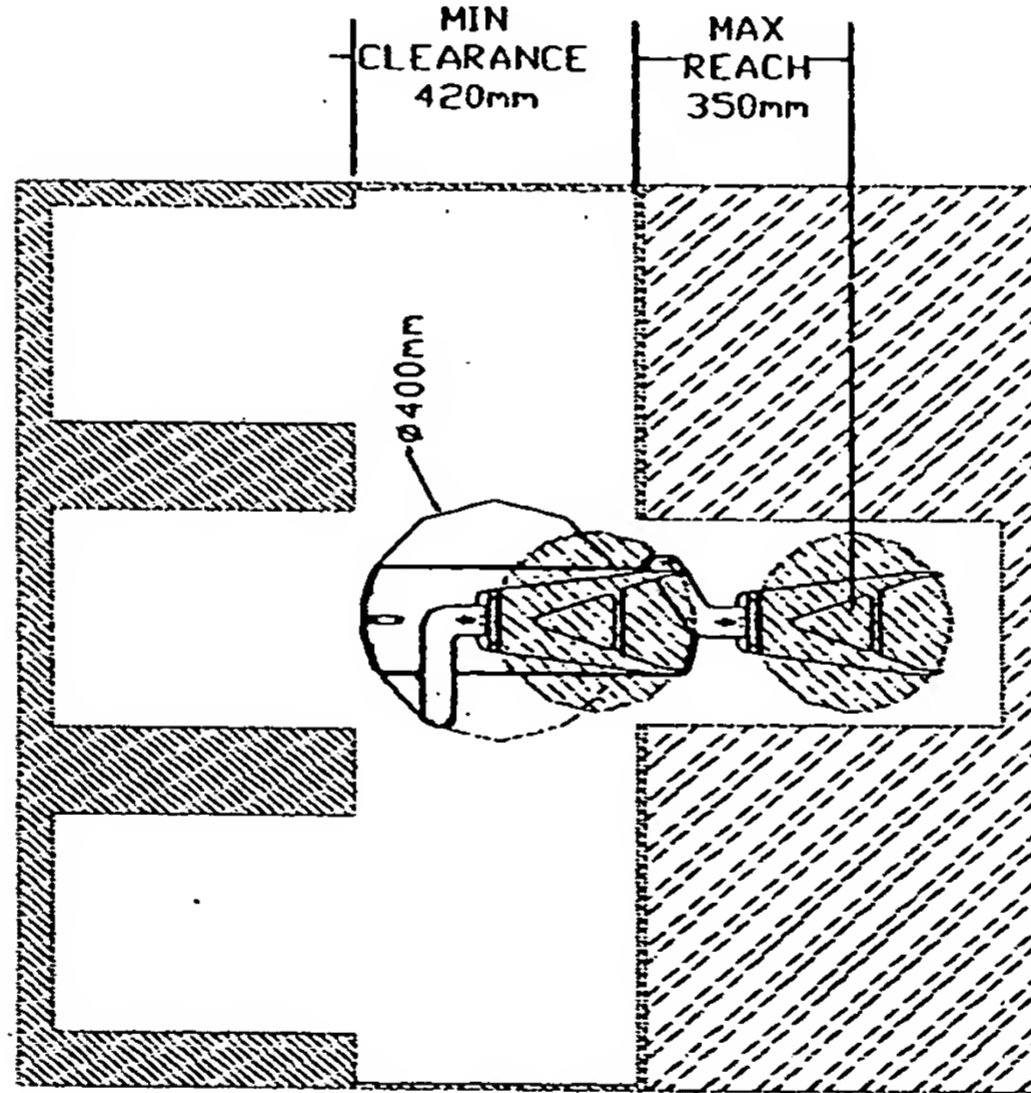
FIG. 26A

NOTED" 2602800T

Conventional Linear Slide Robot



Off-Center Slide-Body (50mm offset)



EFEM Process Tool

FK.27B

FK.27A

207.0E0" 250.2800T

Example motion sequence for rapid swap slide-body with off center rotation axis.

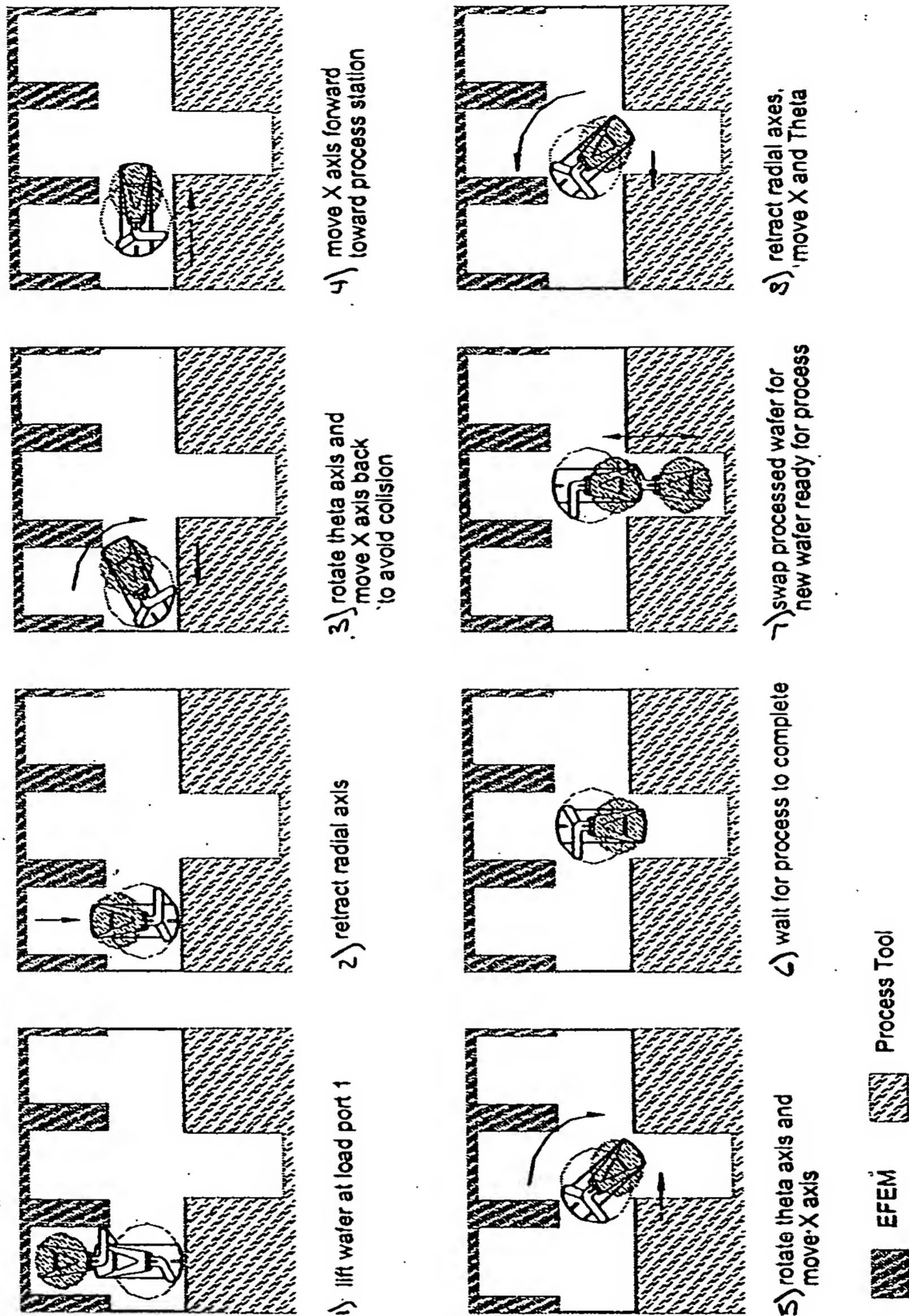


FIG. 28

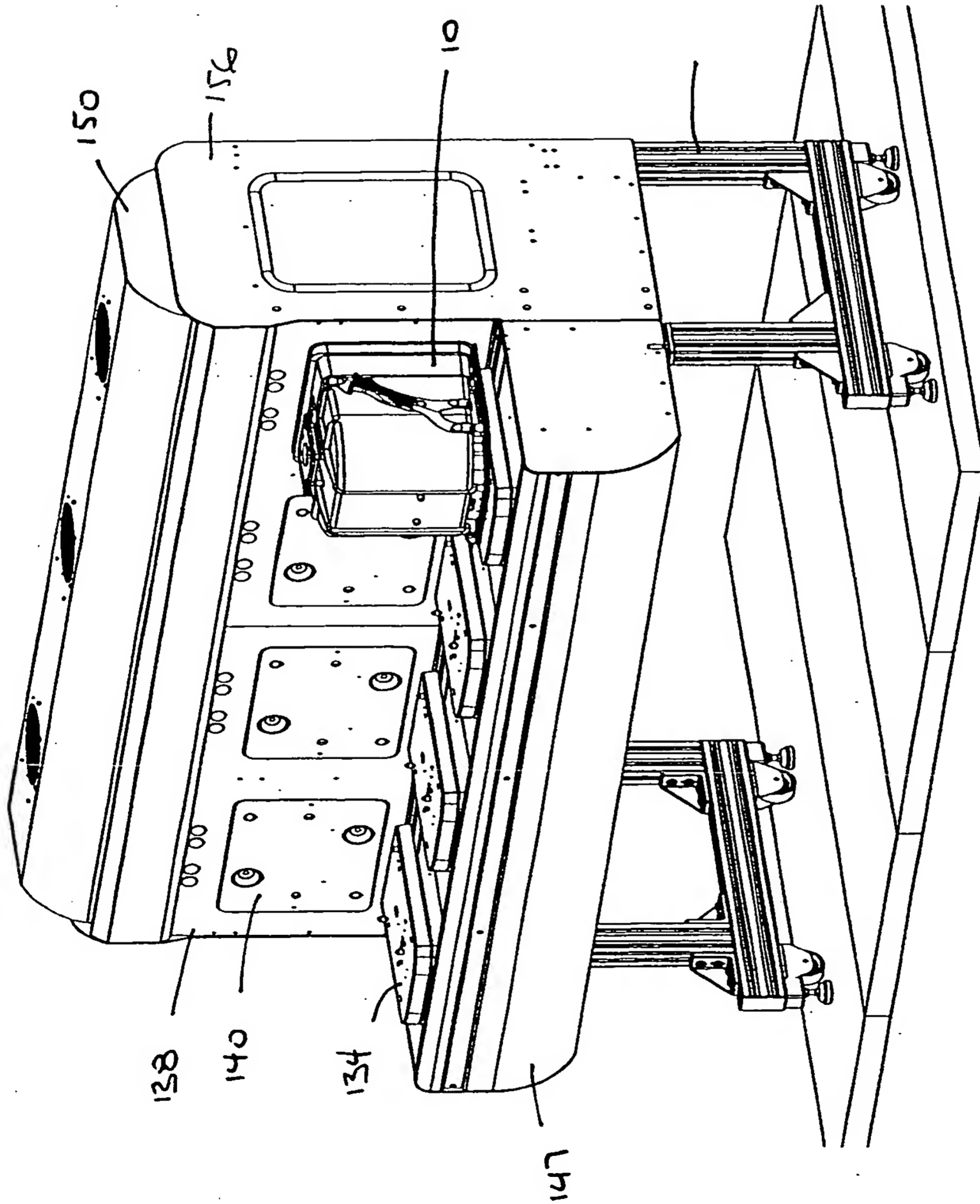


FIG. 29A

20100702 030102

10087092-030102

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM
Docket No.: ASYS08197US0
Serial No.: Unknown
Confirmed: Unknown
Filed: Herewith

Inventor(s): Anthony C. B...
Attorney: Scott D. Sanf...
Phone: (415) 362-38...
Express Mail No.: EL670726215US

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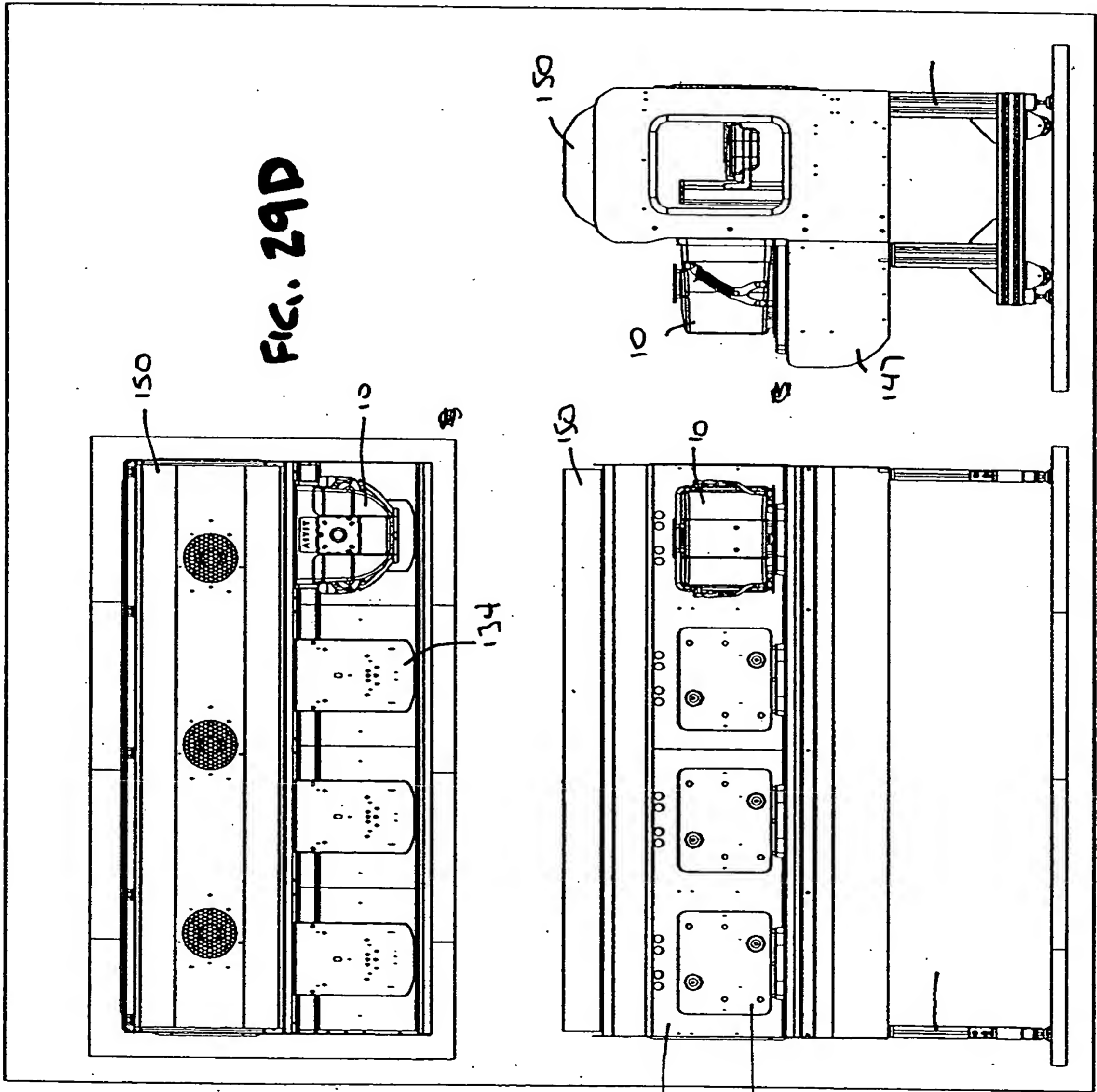
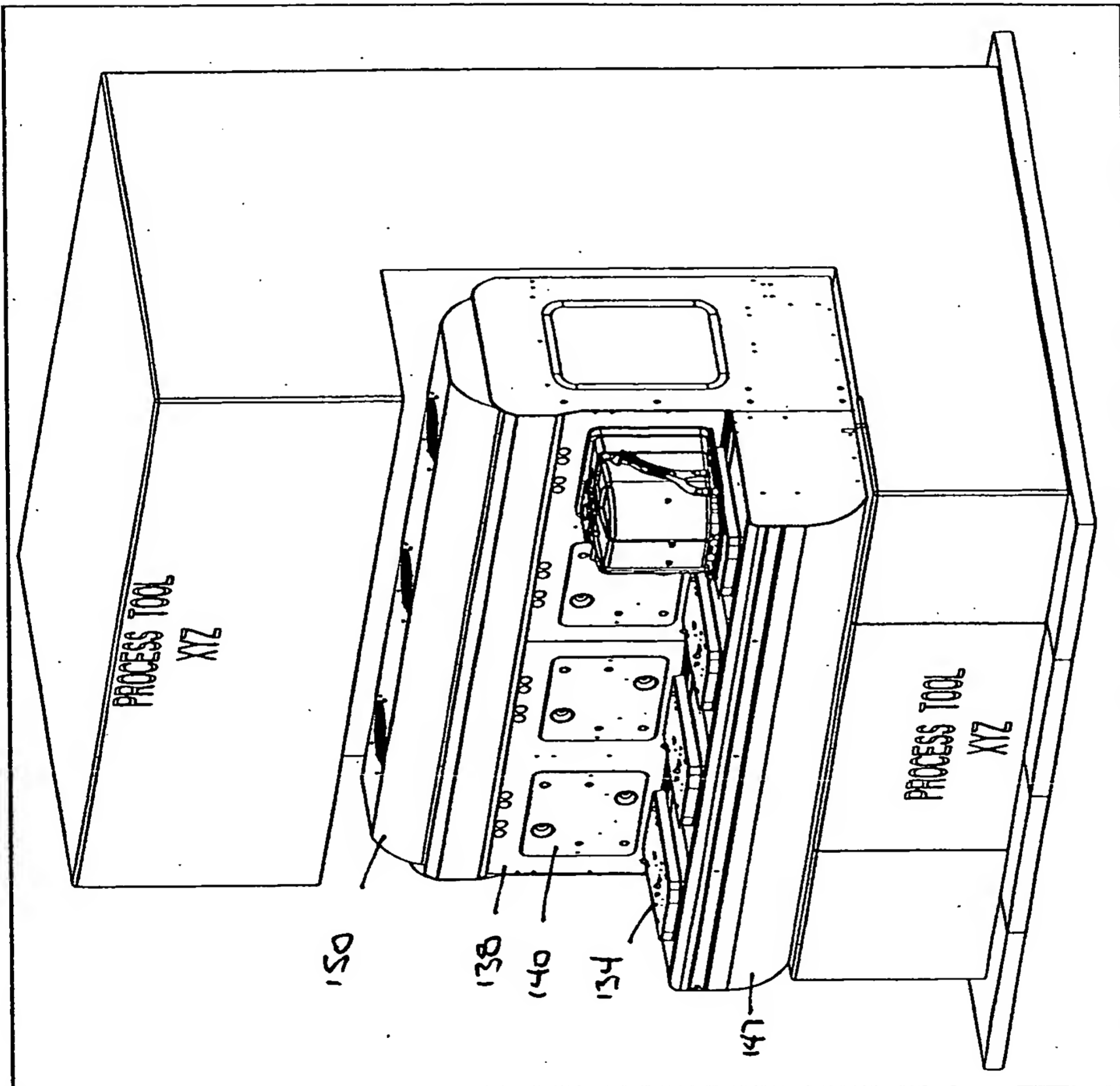


FIG. 29D

FIG. 29C

FIG. 29B



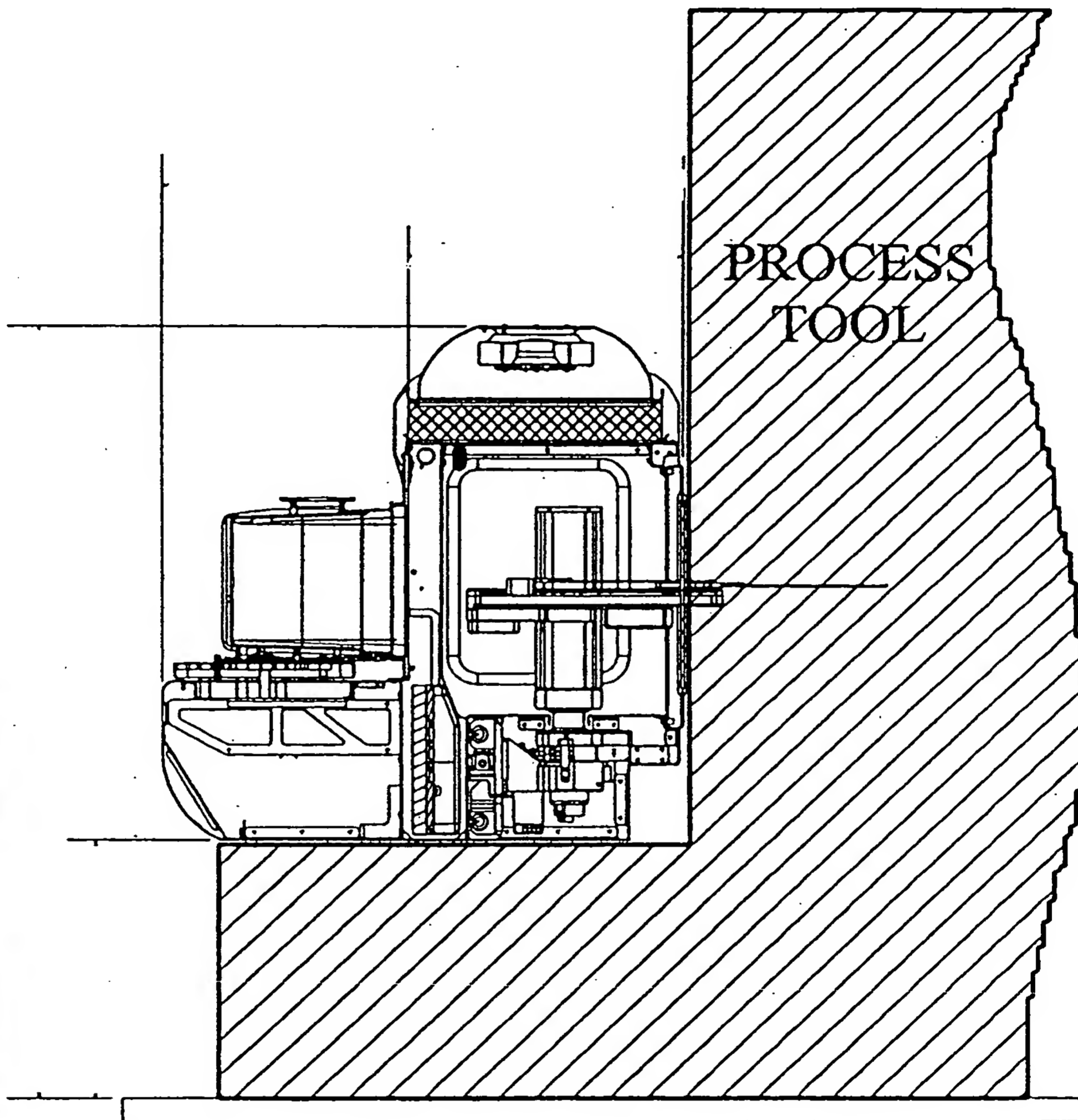


FIG. 30B

10087092.030102

